

NUIAN OU _____

MINUTES OF EVIDENCE

TAKEN BEFORE THE

INDIAN COTTON COMMITTEE

VOLUME IV COMMERCIAL

PART I

NINUTES OF EVIDENCE FROM UNITED PROVINCES, CENTRAL PROVINCES, BURMA, PUNJAB, SIND AND BOMBAY



CALCUTTA
SUPERINTENDENT GOVERNMENT PRINTING, INDIA
1920

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NOTE.

It is regretted that it has been impossible to publish the evidence given before the Indian Cotton Committee earlier owing to the transfer of the Secretary to other duties in August, 1918. For convenience of reference, the evidence has been classified under the three heads, Agricultural, Irrigation and Commercial Volumes I and II contain the Agricultural Evidence, Volume III the Irrigation Evidence and Volumes IV and V the Commercial Evidence. The evidence of a witness will, therefore, be found in one or other of these volumes according to its predominating character. The references in black type in the written statements are to the questions issued by the Committee which are printed at the commencement of each volume. Thus "(30) Local trade customs" shows that the paragraph is a reply to question 30. A glossary of the more common vernacular terms used in the evidence is appended

F NOYCE, Secretary, Indian Cotton Committee

Bombay,
October 1st, 1919



Glossary of the more common vernacular terms used in the evidence

Amin Subordinate official of the Irrigation Department

Arat Commission
Aratya Commission agent

Arhar Pigeon pea (Cajanus indicus)

Bajra Bulrush millet (Pennisetum typhoideum)
Bania Village shop keeper and money lender

Barani Land dependent on rainfall

Bhata Lateritic soil in the Central Provinces

Bhindi Lady's finger (Hebiscus esculentus), a vegetable

Bhusa Crushed straw

Bigha A land measure, usually about three eighths of an acre

Bora Bag of unpressed cotton of varying weight, generally five maunds

Charı Great millet (Sorghum vulgare) grown as a fodder crop

Chaudhri A headman
Dalal , Broker
Deshi Indigenous

Docra Bag of unpressed cotton of varying weight, generally five maunds

Ghats Hill

Gwar, gwara Field vetch (Cyamopsis psoralioides), a fodder crop

Hari Cultivating tenant in Sind

Inam Land held on favourable terms or free of land revenue

Juar Great millet (Sorghum villgare)

Kamdar Fieldman subordinate in the Agricultural Department
Kan Weight of lint obtained from unit weight of unginned cotton

-Kanungo Suhordmate revenue official in charge of a group of villages known as Revenue Inspector in Madras and Circle Inspector

ın Bomhay

KapasUnginned cottonKarhiDry juar fodderKarnamVillage accountantKharifThe antumn harvest

Khurpa Hand hoe similar in shape to a trowel

Killa Square of land usually equal to 1½ acre in area

Kodo, kodon A millet (Paspalum scrobiculatum)

Kodo, kodon A millet (Paspalum scrobiculatum)

Kumbu Bulrush millet (Pennisetum typhoideum)

Kunhı . A cultivator

Kutkı A pulse (Dolichos bi/lorus)
Laklı One hundred thousand
Mahajan Money lender
Makkı Maize (Zea mays)

Malguzar Landholder in the Central Provinces

Mandı . Market

Methi Fenugreek (Triaonella foenum gracum)

Moth • A pulse (Phaseolus acontifolius)

Mukhtiarkar Revenue officer in charge of a talula (q v) in Sind

Mung A pulse (Phaseolus mungo)
Patel Village headman
Patwari Village accountant
Phuttics Unginned cotton Kapas

Rahı The spring harvest

Rui Tint.

Sahukar . Money lender

Sailab, Sailabi Land urigated by floods or percolation from a river

San Hemp (Crotalaria juncea)

Senji A fodder crop (Melilotus parviflora)
Shaftal A fodder crop (Trifolium resumnatum)
Tahsil Revenue sub division of a district

| Tahsildar . | | | Officer in charge of a tahsil, taluk or taluka (q v) | | | | |
|---------------|---|---|---|----|---|---|--|
| Taluk, taluka | | | Revenue sub division of a district | | | | |
| Til | | | | | | | Sesamum (Sesamum endicum) |
| Toria | | | | ٠. | | | An oil seed (Brassica campestrees) |
| Tur | | | | | | | Pigeon pea (Cajanus indicus) |
| Urad | | | | | | | A pulse (Phaseolus mungo) |
| Varagu | ~ | | | | 1 | | Bulrush millet (Pennisetum typhoideum) |
| Zaildar | | | • | • | | • | A rural notable appointed by Government The head of a Zail or Circle of villages |
| Zamındar | | • | | | | | A landowner, in the provinces visited by the Cotton Committee generally a peasant proprietor |

VOLUME IV.

Commercial.

PART I

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MINUTES OF EVIDENCE

TAKEN BEFORE THE

INDIAN COTTON COMMITTEE

VOLUME IV Commercial

PART I

Questions issued by the Committee.

I -AGRICULTURAL EXPERIENCE

(a) "Deshi" short staple cotton

- I In what cotton growing districts have you been stationed and for what period in each? Have you been in actual touch with cotton cultivators?
 - 2 What varieties of deshi short staple cotton are grown in the districts with which you are acquainted?
 - 3 What is the avorage size of holdings in which cotton is grown and what proportion of the holding is under cotton?

4. What are the average yields and profits per acre?

 What rotations are followed and what manures if any, are applied?
 How does the return to the cultivator of the different varieties of deshi short staple cotton compare with the return from (a) deshi long staple eotton, (b) other deshi, erops (c) exotic cottons?

7 Does the area under desh short staple cotton fluctuate at all largely in the districts with which you are acquainted, and if so, is there any special reason for this? Is there any possibility of an increase under desh short staple cotton and if so, what are the fectors which would limit that increase?

8 To what uses is the seed put? Is any seed selection practised and, if so, on what principles? Is seed selected for sowing specially hand ginned?

9 Please add any remarks you consider may be helpful to the Committee on the general economic state of the cotton growing districts with which you are acquainted

1 R -Please see note at end of Section (c) below

(b) " Deshi" Long Staple cotton

- 10 In what cotton growing districts have you been stationed and for what period in each? Have you been in actual touch with cotton cultivators?
 - 11 What varieties of deshi long staple cotton are grown in the districts with which you are acquirinted?

 What is the average size of holdings in which cotton is grown and what proportion of the holding is
- under cotton?

 13 What are the average yields and profits per acro of different varieties of deshi long staple cotton of which you have had experience? How do these compare with those of (a) deshi short staple cotton, (b) other deshi crops, (c) oxotic cottons ?

14 What rotations are followed and what manures, if any, are applied

15 What, in your opinion, are the special conditions which would affect any increase in the area under desh long staple cotton in the districts with which you are acquainted, eg, length of ginning season, irriga tion available, climatic considerations, competition with food crops, limitation owing to necessity of observing rotations, labour supply, etc?

16 Do you consider that, in the cotton growing tracts with which you are acquainted, the right varieties of deshi long staple cotton are being pushed in the right districts or whether still superior types could be

introduced?

17 What measures would you recommend to prevent the mixing of deshi long staple cotton with (t) deshi short staple cotton, (ii) exotic cotton (a) in the field, (b) in the factory?

18 To what uses is the seed put? Is any seed selection practised and, if so, on what principles? seed selected for sowing specially hand ginned?

19 Please add any remarks you consider may be helpful to the Committee on the economic state of the cotton growing districts with which you are aquainted

V B -Please see note at end of Section (c) below

(c) Exotic cotton

20 In what cotton growing districts have you been stationed and for what period in each? Have you been in actual touch with cotton oultivators?

21 What varieties of exotic cotton are grown in the districts with which you are acquainted?
22 What is the average size of holdings in which cotton is grown and what proportion of the holding is under cotton?

QUISTIONS ISSUID BY THE COMMITTLE

[Continued.

23 What are the average yields and profits per acre of the different varieties of exotic cotton of which you have experience? How do these compare with those of (a) deshi short staple cotton, and (b) deshi long staple cotton, (c) other deshi crops

What rotations are followed and what manures, if any, are applied?

What, in your opinion, are the special conditions which would affect any increase in the area under exotic cotton in the districts with which you are acquainted, eg, length of ginning season, irrigation available, climatic considerations, competition with food crops, limitation owing to necessaty of observing rotations, labour supply, etc?

26 Do you consider that, in the cotton growing tracts with which you are acquainted, the right varieties of evotic cotton are being pushed in the right districts or whother still superior types could be introduced?

27 What measures would you recommend to prevent the mixing of exotic cotton with (t) deshi short stuple coton, (11) deshi long staple cotton (a) in the field, (b) in the factory?

28 What is your opinion as to the desirability of importing seed direct from America or Egypt agrequired

as against relying on selected seed grown in India?

29 Please add any remarks you consider may be helpful to the Committee on the economic state of the cotton growing districts with which you are acquainted?

A R—The Committee would be obliged if you would give them your ylous as to the best organization for handling cotion in your province. Under this head you might consider research in connection with improvement of the plant establishment of seed farms for the production of improved seeds district staff necessary and the regulation of buying agencies and kinning factories

II -COMMERCIAL ASPECT

30 Givo, as fully as possible, an account of local trade customs with which you are acquainted in regard to the markoting of the cotton erop, in particular as regards any systems of agency, advances, future buying or contracts

31 What are the commercial names of the various grades of cotton with which you are acquainted and from what areas do they come. Do you regard them as suitable and, if not, what alterations would you suggest? Can you suggest any means by which the commercial names could be standardized, te, of securing that the same name should be used for the same cotton from whatever locality it comes?

32 What do you consider is the best form of buying agency?

III -STATISTICAL

33 Do you consider that the cotton forecast, as at present published, is sufficiently recurate as far as your province is concerned? If not, can you suggest any way in which it could be improved?

34 Can you suggest any methods by which the statistical information published by Government in

regard to cotton other than the forecasts, cg, the cotton press return, could be made of greater use to the cotton trade?

35 What are your views in regard to the daily publication of Liverpool and Bombay cotton prices at up country markets 9

IV -MANUFACTURE

(a) Ginning and pressing

36 What class of gins and presses do you use and how many have you in your factory?
37 What is the size of the hale produced by the size of the size of the hale produced by the size of the

What is the size of the bale produced by your factory?

38 What is your opinion as to the relativo merits of saw and roller gins?

39 Have saw gins been successful with Indian cottons and, if not, what is the objection to them?

40 Have you experienced any difficulty in obtaining factory labour?

41 Do you find the condition in which raw cotton reaches your factory in any way objectionable and, if so, what remedies would you suggest?

42 Assuming that it were found possible to replace any large quantity of short staple cotton by long staple cotton, would any substantial alteration in your machinery be necessary?

N B —The Committee would be obliged by any information you can the them in regard to the general question of long rersus short staple cotton and also in regard to any experience you have had in handling any new staple cotton

(b) Spinning and Weaving

43 What counts are spun in your factory and what is your principal market?

Do you find the condition in which cotton reaches your factory in any way objectionable and, if so, what remedies would you suggest?

45 What, in your opinion, would be the effect on the cotton market generally if any large proportion of the short staple cotton at present grown in India were replaced by long staple cotton?

V-Genfrai

46 Does your experience indicate that buyers in the past have been prepared to encourage the growth of improved cottons by offering a premium for them?

47 Do you consider that the water rates charged have any effect on the cultivator's preference for a

particular crop?

48 Do you consider that any changes tro called for in the schedule of water rates at present in force? 49 Do you consider that the tenure on which land is held in the tracts of which you have experience in ing way affects the extension of cultivation of cotton?

VI -IRRIGATION

(For Punjab untnesses only)

50 Please state what experience you have had of irrigation in general and in particular of irrigation under canals Have you any experience of canal irrigation assessment work?

[Continued]

51 Has it been your experience that cultivators prefor wheat to cotton as an irrigated crop? If so

what is the reason for the preference?

- 52 (a) What is the critical period in regard to the water supply in the canals of which you have exence? How would this be affected if there were an increase in the irrigated area under cotton between perienco? April and October?
 - (b) When is cotton watered and what is the volume of water required per acro at each watering?

(c) Please furnish statistics for the channels of which you have had experience showing-

(1) the average flow of the channels month by month throughout the year

(11) the average monthly area of each crop arrigated under the channels. It will be sufficient if the average for the last three years is given

The maximum carrying capacity of the channels should also be stated

53 (a) Are there any periods during which the supply in the rivers would be sufficient for a large expansion of the area under cotton to utilize which the canals could properly be enlarged with due regard to financial considerations? If so, please give figures for the canals of which you have experience

- (b) How would such an enlargement of the canals affect the area under wheat?

 54 (a) To what extent could the duty of water on the canals of which you have experience be improved by equalising the distribution of the supply between the upper and lower outlets on the distributaries?
 - N B -In the Punjab this process is technically known as the 'remodelling of outlets

(b) To what ortent could modules he used to effect this purpose?

- (c) If the distribution were equalized, what additional irrigated area would accrue? What crops would be grown on this additional area?
- 55 Does the supply in the rivers increase gradually in spring and decrease gradually in autumn or are both the mercase and decrease sudden? In either case what is the effect on the cultivator's preference for a particular crop? Please furnish, if possible, a diagram with statistics illustrating your reply for the canals

of which you have experience

56 (a) In cases in which canals carry a supply for irrigation during the summer months only, would it be possible for the sowings and final waterings of cotton to be carried out by irrigation from wells? Do you know any tracts in which such a combination of irrigation from wells and canals would be feasible in the

erse of American cotton?

N. B—American cotton requires watering as follows—

(i) Pirst watering between March 25th and May 6th

(ii) Three waterings between the time when the flowers begin to appear which is between July 20th and August 10th and the cold of Soptember

(iii) A fifth and final watering in October

- (a) To what extent do wells exist in the areas commanded by the canals of which you have experience and what steps are required to extend the irrigation under them in these areas?
- (c) Have you any experience of tuhe wells and do you consider that their use would be valuable in this connection?
- (d) Do you consider that it would be possible sufficiently to improve the canal system by the cons truction of weirs or in other ways so as to obviate the use of wells?
- (e) Can you give an idea of the cost of such an improvement in the canals and the time it would take to carry out as compared with the cost of the construction of the requisite number of wells and time it would take?

57 In case it were found possible to increase the size of canals and consequently the irrigated area under cotton, what addition to gross revenue at present rates for water would you expect? Please illustrate your roply from the statistics furnished in answer to other questions

- 58 Can you give a rough estimate of the average area of each crop grown on a helding of 100 acres? How are these areas affected by the water supply, the necessity for growing a fodder crop and of preserving suitable rotations of crop? Would any proposal you have put forward bring about an alteration in these
 - 59 Hayo you any experience in regard to the lining of canals? Do you consider it a practicable measure? 60 Can you give a rough estimate of the probable cost of lining canals in terms of acreage irrigated?
- How does this compare with the acreage rates of cost of the canals in their present condition?

 61 If it should prove desirable to enlarge a canal, could this be carried out in conjunction with hining? How would you propose to provide for the existing irrigation whilst the work of enlargement and lining was being carried out?

- 62 What effect would the iming of canals have on scepage problems and the rise in the subsoil water table? To what extent would the expenditure involved be justified on these grounds?
 63 To what extent would the iming of canals improve the supply (a) in the summer months, (b) in the winter months? Would the expenditure involve be justified by the improvement, if any, effected under
- 64 Do you consider that the water rates charged have any effect on the cultivator's preference for a particular crop? Do you consider that any changes are called for in the schedule of water rates?

VI -IRRIGATION

(For witnesses from Provinces other than the Punjab)

- 65 Please state what experience you have had of irrigation in general and in particular of irrigation under eanals Have you any experience of canal irrigation assessment work?
 - 66 When is cotton watered and what is the volume of water required per acre at each watering?
- 67 Has it been your experience that cultivators prefer wheat to cotton as an irrigated erop? If so,
- what is the reason for the preference?

 68 Does the supply in the rivers increase gradually in spring and decrease gradually in autumn or are both the increase and the decrease sudden? In other case what is the effect on the cultivator's preference for a particular crop? Please furnish, if possible, a diagram with statistics illustrating your reply from the canals of which you have experience

United Provinces]

UPPER INDIA CHAMBER OF COMMERCE

69 (a) To what extent do wells oxist in the areas commanded by the canals of which you have oxperience and what steps are required to extend the irrigation under them in those areas?

(b) Have you any experience of tubo wells and do you consider that their use would be valuable in this connection?

70 Do you consider the existing water rates charged for cotton suitable? If you can give statistics

to explain your answer, please do so

71 Can you give a rough estimate of the average area of each crop grown on a holding of 100 acres? How are these areas affected by the water supply, the necessity for growing a fodder crop and of preserving suitable rotations of crops? Would any proposals you have put forward bring about an alteration in these arcas?

72 Do you consider that sufficient water is available for a considerable increase in the area of cotton and,

if so, why is a larger area not irrigated?

73 Is it your experience that cultivators prefer deshi cotton to American cotton? If so, can you explain

their reason for the preference?

74 Is it your experience that the canal regulations create any difficulties in regard to the irrigation of American cotton?

I.—United Provinces.

Upper India Chamber of Commerce

EXAMINED AT CAWNPORE, NOVEMBER 2ND, 1917

Written statement

Proceedings of a Conference of representatives of the local Cotton Mills held at the Upper India Chamber of Commerce at 8 A M, on Tuesday, the 9th October 1917, to discuss and draft replies to the question issued by the Indian Cotton Committee

PRESENT

Mr T Smith Mr T D Edelston Mr A A Black Mr A Hoisman Mr I G Ryan

The Mur Mills Company, Limited The Elgin Mills Company, Limited The Victoria Wills Company, Limited The Swadeshi Cotton Mills Company Secretary of the Chamber acted as Secretary to the Conference

3871 Preamble -The questions issued by the Indian Cotton Committee were read and replies were drafted to such of the questions as appeared to be competent to the interest represented. The questions under the head 1 - Agricultural Experience were not touched upon

II -COMMERCIAL ASPICT

3872 (30) Local trade customs —In Cawnpore, the local ginners buy the lapas which comes into the market in earts, at so many seers per rupee. The consuming mills buy cotton from the ginners or from cotton merchants. The price is governed by Bombay and Liverpool. A certain amount (3,24,000 mainds in 1916) of lapas comes in by rail. The bulk of this is imported by ginners. Ralli Brothers are considerable purchasers in the Cawnpore Market and the Japanese have now come in strongly also. The business of the Cawnpore Market may be said to be entirely "spot"

3873 (31) Standardization of commercial names —The grades here are broadly divided into (a) Deshi, which includes all cottons from Bengal and the Punjab, and (b) the longer stapled Deceans which comprises all the various grades grown in Central, Western and Southern India. The deshi types are graded by numbers rising by helyes from 54 to 7

by numbers rising by halves from 5½ to 7

(2) We do not consider that standarization on American lines would be possible in India The name of the place where the cotton is grown counts for so much with the Indian dealer who handles the cotton that it becomes practically a standard in itself. Standardization would lead to the dealer mixing to attain a stand ard of quality and this is to be deprecated. Manufacturers prefer to do the mixing themselves Whatever the name of the cotton, manufacturers buy on sample

3874 (32) Bnymg agencies—We have no definite workable proposals to make for the elimination of

the middleman who handles the cotton between the grower and the consumer

III -STATISTICAL

3875 (33) Improvement of cotton forecast—The present forecasts, while in our experience sufficiently accurate, would gain greatly in value if issued with greater promptness and we suggest that they could be still further improved if experienced responsible officers were detailed to tour in the cotton growing in our experience districts to view the growing crop and to collect recurate first hand information of the condition of the crop and to make it readily available

3876 (34) Improvement of other statistical information —Press returns and returns of cotton received in mills based on the voluntary submission of returns by presses and mills are valueless. The submission

of these returns should be made compulsory

3877 (35) Publication of Liverpool and Bombay prices —Cotton dealers in Cawaporc are in constant receipt of telegrams giving the Liverpool, American and Bombay prices

IV -- MANUFACTURE

(b) Spinning and Weaving

3878 (43) Counts spun and market for yarn and cloth —The counts spun in Cawapore range from fives to 201's The principal market is the United Provinces

UPPLY INDIA CHAMBLE OF COMMERCE

[Continued]

3879 (44) Condition of cetton -Cotton arrives at Campore well packed and well pressed but Decean cotton, in particular, gives ovidence of bad picking, bad ginning and a high percentage of impurities and frequently of an admixture of inferior cotton

3880 (45) Effect in cotton market of replacement of short staple cotton by long staple —It would have a beneficial effect if the present short staple cotton in India were replaced by a longer stapled indigenous cotton

V --General

3881 (46) Attitude of bnyers to Improved cottons —Our experience indicates that buyers in the past have been prepared to encourage the growth of improved cottons by offering a premium for them

ANNEAURE I

Letter from the Upper India Chamber of Commerce, Cawnpore, to the Deputy Director of Agriculture, Central Circle, Caumpore, dated April 10, 1917

We are in receipt of your No 6938 of the 22nd instant and note that you have received a better offer

than ours for the K22 cotton you had for sale

We note that on the basis of the prices mentioned by us in our letter of the 19th March, K22 would be slightly more profitable than Aligarh white flowered cotton, by which we presume you mean slightly more profitable to the cultivators, and in this connexion we should have been interested to learn what comparative value the buyer of the K22 would place upon these two sorts of cotton

Generally speaking, in our opinion, the whole question of the cultivation of these new types of cotton requires very careful consideration, and we think also that the Department would be well advised to obtain the opimon as a whole of the cotton mill owners of Cawipore, as to the relative merits of the various new types, not only as compared with one another but as compared with ordinary deshi

We would like to make it clear that though spinners would naturally prefer to get a better cotton, still until a better type, such as K22, is available in large quantities, we and spinners generally are satisfied to go on using ordinary good desh: We have no desire, in fact, it would be disastrous to us, to see the supply of desh largely curtailed in favour of an inferior type such as the Aligarh white flower, for reasons which we deal with

We understand that the cultivation of Aligarh white flowered is now being earned out on a comparatively largo scale, and that efforts are being made by the Dopartment to still further extend its cultivation, and we may say at once that this cotton is entirely unsuitable to the needs of Indian spinners—in opinion which is shared with us by other local mill owners and managers. The fibre is very short, and exceptionally harsh and coarse, characteristics which are, we believe, accentiated in years of scanty rainfall. From the spinner's point of view, the solitary good feature about the cotton is its good celour but, generally speaking, colour is only a secondary consideration with spinners in the case of short stapled cottons

We believe that in deciding to extend the cultivation of this cotton, the Department takes largely into consideration its high ginning percentage coupled with the fact that since up till the introduction of Aligaili, the difference in quality between the various grades of deshi has not been large, the cultivators in any particular district have realized much the same price, namely that of the lowest quality for all their Lapas whatever the

In this connexion, however, it should be remembered that when cotten prices are normal, the difference in value between ordinary deshi and fine deshi is only a few rupees per maund, from which it is clear that the

difference to the cultivator per maund of Lapas is really very small indeed

As the sorting out of the better qualities only commences to take place after the lapas has left the cultivator's hands, the resulting appreciation in value as the cotton passes through the hands of the aratyas the ginners, and the balers, benefits only these middlemen. Obviously, therefore, the temptation to the recultivator to grow the low class but high yielding cotton is very great, but it must be remembered that if cotton which the ultimate buyers, namely, the spinners, can only use in small quantities be grown on a large scale, the first result, so far as the cultivator is concerned, will be merely to depreciate the standard of value upon which the price he obtains for all qualities is based. It is true that this may be compensated for at present by the fact that the cultivator of Algarii produce a larger quantity of lapse from a larger quantity of lapse from a constant of the production of Algarii produce. given area than his neighbour who continues to grow deshi, but if and when the production of Aligarh begins to seriously curtail the outturn of desh, it seems to us inevitable that, since spinners must have deshi its value will appreciate so much as compared to that obtainable for Aligarh that the cultivators themselves who still have deshi to sell will commence to realize a price sufficiently high to more than compensate for its lower yield, while those who have something better than deshi to sell, such as K 22, will be still better off By this time however it may be the work of years to cradicate the seed of the inferior cotton, because as we understand it, the chief difficulty which has confronted the Department in every attempt to introduce new types of cotton has always been to prevent mixtures of seeds and to stop the cultivation of the older types This being so, we presume it would be even more difficult to revert to deshi or to substitute another new type for one which had already been widely distributed and encouraged by the Department

Apart from the cultivators' interests, however, we, as spinners, can only view with very grave apprehen sion the prospect of any considerable increase in the production of the Aligarh, firstly, because except to a very limited extent, and even then only when the weather is most favourable to spinning, it is useless to us, and secondly because, as stated above, it seems to us that a large increase in its production must inevitably tend to ruse the price of the kind of cotton which we want and can use, and may ultimately drive us to obtaining

our supplies from outside the United Provinces

There is another very serious aspect of this matter also which concerns the cultivators equally with the

spinners and that is the fear that the Aligarh may be used to adulterate deshi and other better cottons

It is of course well known that adulteration of the sort is carried out and, notably in the case of Hing anghat, certain sorts of staple cottons are now avoided by spinners for this reason. It is we think more than probable that adulteration may be earned out even now in places where Aligarh and deshi are grown in close proximity, just as was the erso a few verrs ago when it was found that deshi was being used to adulterate the American and Dharwar, of which the Department was promoting the growth

Even however if no such adulteration is now practised, it is certain that this method will ultimately be adopted, whether by the growers or the ginners, or both, in order to get rid of excess and unsaleable quantities of Aligarh, and this we have no doubt the Department would be no less anxious to avoid than we ourselves

United Provinces]

Ulper India Chambel of Countiel

It is, therefore, we think necessary on every ground for the Department to give this matter their very serious consideration, because obviously your retrivities, however beneficial they may be at present to the cultivators, should not be allowed to injure the local spinning industry, if for no other reason than that this in its turn must reflect upon the cultivators

Indeed, so far from attempting to further increase the spread of Aligarh or other similar inferior types, we are of opinion that the time has now arrived for you to consider whether it would not be in the best ultimate interests of the cultivators to curtail their growth, and endeavour to encourage the growth of K22

or other similar sorts instead

Proceedings of a Conference with the Upper India Chamber of Commerce

PRESENT ON BEHALF OF THE CHAMBER OF COMMPRCE

Swadeshi Cotton Mills Company Horsman Swadeshi Cotton Mills Compruy Mr A Horsman (Junioi) Muir Mills Company, Ltd Mr T Smith Victoria Mills Company, Ltd A Black Mr A Mr B West Mr S H Taylor Victoria Mills Company, Ltd Elgin Mills Co , Ltd. Secretary Mr J G Ryan

3882 (President) The Chamber From what we have seen of Aligarh white flowered cotton, it is very coarse with no staple in it though it has a good coloin We think therefore that the policy of the Agricultural course with no staple in it though it has a good coloin. We think therefore that the policy of the Agricultural Department in pushing the cotton is a bad one. The cotton is not as good as the ordinary Bengals. The Campore mills will not touch it at all. On the other hand it has a market. The Japanese buy it for special purposes. So far as India is concerned, it is a bad policy to push such a cotton. We would not take any more of it. We should prefer to be without it. Mr. Leake's K22 is generally liked by the mills here. There is not any large quantity of it yet. It is a really good cotton. It spins 16's quite well. Its staple is quite good from our point of view. The length is \(\frac{3}{2}\) to \(\frac{3}{2}\)th inch.

3883. Mr. Smith.—The last lot was very good, the best we have seen so far. The mills here are moving in the direction of consuming longer staple cofton. The proportions are half to half in some mills and three

The proportions are half to half in some mills and three - in the direction of consuming longer staple cotton

fifths deshi to two fifths Decean cotton in others

3884 Mr Taylor—In the Elgin mills, the proportion is six of longer staple to one of deshi 3885 Mr Black—The proportion of long staple cotton used has gone up lately since the war 3886 Mr Taylor—We consider as staple cotton, cotton the staple of which is at least an inch

3887 Mr Blact —If Mr Leake could bring up his K 22 to an inch in staple, everybody would be fighting for it

3888 The Chamber -K 22 is not on a commercial basis yet. Though you may have heard from some unbelievers that the Cawnpore people won't pay as much for K22 as for desh, we are of opinion that that is There will be no difficulty in absorbing all the cotton of this variety which can be grown, in the mills here

3889 Mr Horsman —The mills would take all they could get up to 60,000, or 100,000 bales We like it immensely

3890 Mr Smith —We would buy K 22 at the price at which a similar cotton could be purchased else

whore

re The price would be satisfactory
3891 Mr Taylor — I have had experience of the ordinary Cawipore American I bought it for three In the first and second years it was quite good, but in the third year it began to fall off. The yield trucularly small. The yield the first year was about four hundred bales, in the second year it was a was particularly small Four hundred bales was the largest quantity that we have had in any one year It has been falling off since then and the quality has not been so good

3892 Mr Smith—It used to come in in small parcels which give an infinity of trouble. We want cotton marketed in big lots. The Agricultural Department sells direct to the inills. That arrangement is satis

factor, so far as it goes

3893 Mr Taylor —I think the premium paid was a rupec per maund (100 lb) over No 7, the best deshi cotton in the local marlet

3894 Mr Smith —We don't think that Aligarh white flowered is replacing deshi in tracts from which we used to get deshi before It is not affecting the supply of deshi. At least, so far it is not yet visible

3895 The Chamber -We have stated in our written evidence that we consider that the standardization of names on American lines is not necessary and that the name of the place becomes a standard by itself Some years ago, Mr Johnson, of this Chamber, urged the authorities to adopt measures to prevent deterioration due to inferior cotton coming into an area which was growing cotton of a higher quality It might per haps be possible to adopt that suggestion by prolubiting the movement of cotton in anything but fully pressed bales but that might be expensive and troublesome. We believe it is the practice in the Bombay Presidency to carry cotton in boras or docras. If that were prolibited, it might prevent the mixing which is complained of There is a great deal of mixing in cotton but it is difficult to detect now

3896 Mr Horsman - A fan quantity of Harpalpur (Bundelkhand) cotton may be mixed with cotton

from Harda and Wardha 3897 There are differ 3897 There are different ways of mixing There is the mixture of short staple with long staple, then there is mixing with dirt and water. Short staple cotton is not watered. Dirty cotton is mixed with other cotton. Graded cotton is mixed with finer graded cotton. There are two systems of arbitration in Bombay—one for staple and one for grade. There is either a rebate for defective quality or the cotton is rejected.

3898 Mr Smith—There is no system of arbitration in Campore and no difficulties arise 3898 Mr Horsman—Cases are sometimes sent to Bombay for arbitration

3900 The Chamber -We consider Mr Leake's line of experiment as the most promising and it is probably better than attempts to establish Campore American

3901 As to forecasts, Messrs Ralli Brothers have frequently pointed out the inaccuracy of the forecasts The Chamber of Commerce is not in a position to point out such inaccuracies as it is not in touch with exports 3902 Mr Smith—The returns from cotton presses should be sent in regularly. At present they are of no use to us. To be of any value they must be made compulsory and complete

[Continued

3903 Mr Horsman - People can please themselves in regard to their submission at present. If they were compulsory as in America, they would be useful. They would give information in regard to India to the world outside

3904 Mr Taylor -There are several reasons which add to the difficulty of making the so called American cotton from the Punjab a success here. The Punjab Agricultural Department prescribes that we should go and buy our own kapas there, have it ginned and pressed under our own supervision This is hardly worl able for an individual firm. This is in regard to the cotton which the Punjab Agricultural Department guarantee as grown from pure seed. Anything we get down of the so called Pinjab American from the Pinjab has, in every case been mixed. In some cases it has been worse than in others. If we could get only pure cotten there would be a very big demand for it, I am sure. The cotten would be liable to be rejected entirely if it were mixed

3905 Mr Smith -I tried to get a press in the Punjab (Lyalipur) to gin my cotton for me, but could not I purchased some cotton through a respectable agent last year. I purchased about one thousand get it done five hundred bales

3006 (Mr Wadia)—Mr Smith—I can think of no alternative to licensing ginneries Assuming that they were licensed, you would then be able to exercise a certain measure of control That might be the solution If ginneries were heensed, one of the conditions of heensing should be that any damping of cotton in those gunneries should be followed by forfeiture of the license I would certainly recommend that

3907 The Chamber—We should say flagrant and repeated cases of damping should be penalised both in gins and presses. We would extend that to deliberate adulteration in flagrant cases in which a man mixes deshi cotton with Cawapore American or K 22, or Aligrah white flowered cotton with K 22 and brings down the quality of the whole We would make the reservation that the mixing should be fraudulent if an attempt be made to sell the furture as a better quality. We are aware that up to 1876 there was a Cotton Franck Act in this country, which was repealed on the main ground that the Inspectors under that Act were not honest. If ginneries were been and damping and adulteration of cotton were made penal, the same difficulties might arise again We do not think that legislation would improve the inorality of inspectors when you have n venal lot of men to deal with

3908 Mr Smith —I do not think that damping was included in that Act, but adulteration came under

3909 The Chamber -We are rather inclined to think that a distinction might be made between adultera

tion and damping It is impossible to legislate to prevent a man from mixing good and bad cotton 3910 Mr Smith—I think that damping could be controlled. We made a representation to the Govern ment of India that damping should be the subject of legislation. It should be controlled at the presses 13 no object in watering lapas is the dainp has to be got out before ginning
3911 The Chamber —We have no system of testing for moisture but know of the testing houses at Hisro

m I rance

3912 Mr Taylor - 1 testing house would only be useful for specific cases as far as we are concerned The test would be on the basis of absolute dryness

3913 Mr Horsman —A testing house is a good idea, but whether it would pay is another in iter testing house were established in Bombay the cotton nuglit get damper on the way to Bombay. The If a The best remedy to prevent damping and adulteration is for the mills to join together and to gin and press their own cotton Hathr is and Agra can join with Campiore and gin and press their own cotton for themselves. That is one way of getting cotton pure. The risk of fluctuations would have to be taken but there would not be much loss

3914 Mr Smith — There was one mill at Cawinporo which tried to gin its o in cotton They had to give

it up and to sell the ginning plant. It did not prove a success.

3915 Mr Horsman —I think it would pay the mills to do as I have uggested. The existence of pools c uses the mills to pay more for their cotton but ninkes no difference to the cultivators The mills pry for the gins and presses that don't worl

3916 Mr Smith—The mills pay part but in all probability the glower also gets less

3917 The Chamber - Wo would welcome any practicable scheme for breaking up ginning and pressing

3918 Mr Smith —The mixture of ungimed cotton with ginned cotton is fairly frequent
3919 Mr Black —Any mixture to a large extent of unginned cotton with ginned cotton would lead

to the rejection of the balos

3920 Mr Smith—The heening of gimneries and the withdrawal of the heense unless a gin is actually

"The standardization of ginneries is a matter requiring thought." The standardization of ginneries might lead to the standardization of cotton mills

3921 As to an export duty on cetton, this Chamber has recommended an export duty on raw cotton. We are in favour of such a duty and we think that this revenue should be carringal ed for the improvement I measure would ultimately benefit from such a measure of cotton

3922 (Mr Hodglinson)—Mr Smith —No pure American cotton is used in Cawinpore Rulli Brothers are fairly large purchasers of cotton grown in this district. They buy on samples

3923 Mr Blact — If a farmer has a small quantity of long staple kapas, ho sells it to the gunneries

simply sells the lapas The gimeries sell the cotton to Rallis

3024 Mr Smith —Rallis buy lapas from the middleman who has bought it from the cultivator They get it gimed Most of their cotton goes to Bombay

3925 Mr Horsman -I doubt if Rallis would give a sufficient price to encourage the growth of long staple

cotton unless a large quantity was forthcoming *e, not less than 1,000 biles

3926 Mr Smith—The Chamber of Commerce has its own arbitration rules but disputes are very few
ind they are generally settled by the members themselves We deal with very respectable firms and it would
be a serious matter for them if their names were taken off our lists. There is no future market in Cawapore In the event of bad weather and crop reports, spot prices go up straight away and the price goes on rising

3927 Mr Horsman—Since the last runs the price of ordinary deshi has gone up by Rs 4 and Rs 5 per hundred pounds, i.e., about 71 a lb

3928 Mr Smith—Campore American comes in m small experimental lots and is giving evidence of deterioration. It is still in an experimental stage. We shall take it, there is no doubt about that. In the ovent of large quantities of long stuple cotton being grown in this district as well as in India generally, there is no doubt that a large proportion would be used by the Indian mills and a large proportion would be United Provinces]

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available for export Japan would come in Agreeing that Laneashne would be quite glad to spin Indian eotton where it has been spinning American, if it could get it fairly clean, the fairly clean is a very awkward provision

3929 Punjab American spins 21's very satisfactorily 3930 Mr Taylor —I have spin 30's out of it

3931 (Mr Roberts) Mr Taylor—The staple of Punjab No 4 F was not us good last year as previous we had no difficulty in buying if

3932 Mr Smith -I was confronted with the difficulty of getting the cotton gimed, but I managed to get it through a very respectable firm who purchased it and got it ginned Last year, the Cawapore American was very badly sellen in parts and there was very little of it. Wo had to get a rebate on one or two parcels There was not 100 biles of it 3933 (M) Wadia) The Chamber — The Japaneso but distinctly good cetton in this neighbourhood

Rallis bought stained cotton last year to send home. Aligarh white flowered cotton would not work well

on the condenser system 3934 (President) The Chamber —The Chamber supports the idea of an expert duty and thinks that the

revenue thus obtained should be carmarked for cotton development in India

3935 The Chamber of Commerce has already advocated that the agricultural staff should be brought up to necessary strength. A Central Controlling Cotton Bureau consisting of botanists, agriculturists and representatives of the trade might be a good plan This idea seems to be a very sound one but we should like to give mature consideration to the subject

3936 In its Resolution regarding an export duty forwarded to the Government of India, the Chamber

has advocated a moderate cess and has avoided specifying a particular amount

3937 Mr Smith —The east might be on a sliding scale

3938 The Chamber -In conclusion, we think that the trude should have some control of cotton develop ment

The United Provinces Chamber of Commerce

EXAMINED AT CANNFORF, NOVIMBLE 3rd, 1917

Written statement submitted by Mr Jan Ram Dass, representative of the United Provinces Chamber of Commerce, Cawnpore

I -AGRICULTURAL EXPERIENCE

(a) " Deshi" short staple cotton

3939 (1) Experience —I have been in touch generally with most of the cottons grown in the Punjib and in particular with the ones grown in the districts of Lyallpur and Jhang—I have been to a very great extent in actual contact with the cultivators

3940 (2) Varieties -The deshi cotton grown in these districts is only of one variety, but there are some tracts in the Lahore and Ludhiana districts where more than one variety is found The fillar of the Lahore district is fairly good both in staple and strength, but the very best of all the cottons of the north (Deshi) is the Peshawar cotton

3941 (3) Size of holdings—The average holding in the United Provinces is something like ten to twenty bighas. Of the whole holding, three fifths are given to the rabi crop and two fifths to the I harif. Of the Lhart half of the available land is given to the cotton cultivation. It therefore means that nearly twenty per cent of the whole holding is given to cotton In the Punjab, a higher percentage is given to the cotton cultivation Of late, there has been a Government eircular that the wheat sowing may be encouraged and at more than one place I have heard it from the persons in the line that they have been promised higher amount of water (irrigation) for the wheat crop and have kept an extra portion of land for the sewing of that crop I wonder if they have been satisfied with all that they seem to have heard on the point

3942 (4) Yields and profits -The ordinary yield of Lapas per acre of land varies with the soil, mainire and the variety of cetton It also depends on the weather conditions, but, taking all the circumstances into consideration, the yield in an average year of the deshi cotton in the Punjab arrives from nine to twelve maunds per aere, but in the United Provinces the average is eight to nine minds. The United Provinces cultivator dees not seem to undergo the same labour as the Punjabi does, and it seems that he does not

seriously take to operations to increase the return

(2) The cetton is sown in the beginning of May and the sowing goes on till sometimes late in that month the American seed cotton being sown a bit earlier. In the United Provinces, the cotton is sown at two different periods and is named jethu and asaru, after the months in which it is sown. The first is only sown in the irrigated area or whenever there are some earlier showers of rain. This year there was in general a good supply of water frem the canals and but for the inclemency of the weather at a later period the cotton yield this year would have been quite a record

(3) It is of course very difficult, if not practically impessible, to calculate the profits with regard to any particular erop All the yield in cotton is the outcome of most of the other produce which the cultivator has to put in to build up the crop Of course, if by the profits, the idea is to ascertain the price that the cotton fetches, then, leaving the year 1914 out of consideration, the average for the last years has been Rs 9 8 to Rs 10 per maund in the Punjab for the deshi cotton. This was the lan price. The extinction of the

deshi will of course be very harmful to the industry in general

3943 (5) Rotations and manures —In the Punjab, the land is ploughed some three or four times, as this is beheved to give a better return. After first ploughing and harrowing a herd of eattle, preferably goats and sheep, are made to sit there for some time. The duration of this depends on the time available At times when there are rains, the manure (cow dung) is applied, and this is the only kind before sowing of manuro that is applied in the United Provinces In the irrigated area in the Kasur tabil of the Lahore District and in several other places where there are some wells the water which is nather salty, is made very greatuse of In fact when the cultivators find that there is some deficiency in the soil due to the shortage of the manure they begin watering their fields with the salt water of the wells and they find the crop allright The cotton fields as a matter of fact require not much of the water and in fact an and sort of soil is the most useful for the same . It requires very gradual watering and sometimes it is very difficult to ascert un the extent

United Provinces]

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[Continued

of the dryness of the crop A sudden and a bigger flow therefore sometimes proves very harmful hy wolls is good, but then the area thus irrigated is very small and if tube well arrangements he made they will very likely prove vory useful But then the grave difficulty sets in as to the management of the mechanical contrivances in the affair. The individuals cannot maintain and pay a qualified mistri and co operation is something quite foreign to them. If, of course in the agricultural colleges, side by side with the agricultural training the students be given some mechanical training, the difficulty may to some extent

(2) In the United Provinces, the hardworking cultivators try to manure the land very well and sow potatoes and thereafter tobacco and thus they make the land ready next year for the cotton crop

'3944 (6) Comparative returns —Cotton as compared with the other crops does yield a fairly good return The other crops along with this are malli (maize), harley, pulses, and sugarcane Of these, the last named one is the most paying, but thou it can only he had in either the irrigated area or at places where there is plenty of water. The oil seeds also yield a fairly good return, but then of late there have been reports to the fact that they are not to be encouraged in the water deference.

there have been reports to the fact that they are not to be encouraged in the irrigated area

3945 (7) Condition affecting increase in area—The area under the deshi cotton has of late
greatly fluctuated since the introduction of the long stapled evotic cotton, i.e., American in the Punjah and
the Egyptian in Sind. There is not much hischhood of a revival of the short stapled deshi cotton cultivation
since these evotic cottons wherever they have here hisbridged have also fetched a higher price. There is only one fear that the cultivators are beginning to think that these exotic cottons, and in particular the American

one, are a prey to the attacks of the boll worm

3946 (8) Uses of seed and seed selection —Seed is only utilised to feed the cattle as this is helieved to bring shout a hetter flow of the milk with a ligher percentage of the fat in it made and fine cotton (lapas) is reserved by the cultivators and is hand ginned. The cultivator finds it to The cultivator finds it to suit the soil but this affair is only known to him and he cannot demonstrate it. In certain localities seed is pressed for the oil to adulterate give (clarified hutter), but this is only done in a very few cases. In the gins most of the factory owners are so very careless about the maintenance of the quality that they try to get the maximum gain with a very small amount of investment. The seed is greatly damaged in the open air and sometimes in the gins itself. The cultivator is inclined to believe that the seed get greatly heated in the roller gins, and thus loses its germinating qualities. I eaunot personally vouch for it one way or the

II -- COMMERCIAL ASPECT

3947 (30) Local trade customs —The trade customs with regard to the marketing of the cotton differ with different localities. In fact there is no general rule and every one looks to lus own gain and con In ecrtain cases advances are made to the cultivators and thus their produce is secured is the work of the commission agents who are doing the hanking simultaneously. In some cases the produce is sold by the cultivators in the open market through some commission agents (kachi arat). Sometimes the standing crop is hought. This may in come cases he done by the factory owners, particularly in the localities where there is greater competition. At places where there are factory pools, this practice is heing indirectly

(2) The cultivator has to face a great difficulty at practically every step and has therefore no idea to either improve the condition of the field or the quality of the crop, for no sooner is the crop available than he is forced, even much against his will sometimes, to part with it. If some adequate financial facility he afforded lum, there is every likelihood of a hetter prospect. In the first place, the time of the collection of the revenue is had and may be changed and then there are some legislative changes that may be affected wherein a lot of good can result If nothing else, at least this might be done that the villago eo operative

hanks be made to advance on the security of the produce

III —Statistical

3948 (33) Improvement of cotton forecast—The cotton forecasts as puhlished these days are fairly good and are of some use to the dealer—But if these forecasts he not left to the sweet will of the patwari (subordinate revenue official) and preferably if this department he entrusted to the eare of some responsible authorities, the matter can be greatly improved

3949 (34) Improvement of other statistical information -With regard to the ginning reports, there must he some sort of penalty imposed on the firms which fail to comply with the requirement of suh

mitting their report in due time

3950 (35) Publication of Liverpool and Bombay prices —The publication of the Liverpool report in the up country market will in general be useful

V-GENERAT

3951 (46) Attitude of buyers to improved cottons —The buyers are at all times prepared to pay any reasonable premium for the good quality of the cotton as well as the lapas and there is no denying the fact that the good American cotton is commanding a higher price In fact last year there was quite a record in the price when something like Rs 19 per maund were realised at an auction

3952 (48) Desirability of alteration in water rates—There is in general a complaint that the water rates are rather heavy, and looking at the returns of the investments in the irrigation there is every certainty that the rates can very easily be reduced if desired. In the interests of the cultivator, as well as in

the interests of the mercancile community, this sort of reduction would be most desirable

Written statement submitted by Mr Sri Ram Khanna, representative of the United Provinces Chamber of Commerce

IV -MANUPACIURE

(b) Spinning and weaving

3953 (43) Counts spun and market for yarn and cloth —The counts spun in my factory vary from 10s to 22s and sometimes to 34s

(44) Condition of cotton —The qualities of cotton used by me are—

(a) Deshi short staple cotton

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[Continued

(b) Deshi long staple cotton

(c) Exotic cotton

In order to deal with each of the three qualities it will be necessary to give an idea what difficulties we

experience in each vallety

3955 Difficulties in dealing with "deshi" short staple cotton -This head covers all cotton grown in the United Provinces and Punjab with the exception of the evotic variety grown in these provinces and long staple cotton grown in some of the districts of the North West Frontier Province

(2) There are two sowings done in the United Provinces

The early sowing is done in the irrigated areas

ic, where can'l water is available at the first shower in the month of June and the farmers depend chiefly on the canal water for watering before the proper monsoon sets in The second or the late sowing is done

when the monsoon is fairly established after two or three good showers

(3) The cotton sown carly benefits largely if, by chance, the monsoon turns out to be a failure but if not, the crop being sown early begins flowering and the pods begin appearing just at the time when the other late sown cotton wants rain budly and the result is that with timely rain the cotton sown early is either entirely ruined or damage to a great extent is done, injuring both the staple and the colour, to say nothing of the This happens almost every year and I would suggest that some suitable steps be taken by the Agricultural Department to induce the farmers interested in sowing at the different periods to regulate their sowing time so that the bad result experienced by the early sower be avoided

(4) The second stage is the handling of the cotton by the ginneries Here all qualities of lapas are pur chased and mixed without the least trouble being taken of keeping good quality cotton separated from the bad. The buyers of lapas, who are either interested in the export trade or spinning mills take a good deal of care and do not allow indiscriminate inixing. The gins are very often in such a bad condition that the people responsible for working them, mostly look to the outturn and entirely waive the point of keeping them in good condition, so much so that the setting is sometimes deliberately altered to cut the seed in order to

increase the production at the expense of injury to cotton

(5) The third stage comes in the pressing of cotton. Here againstificial damping before pressing in order to increase the weight Here again cotton is subjected to the treatment of

(6) The cotton under this head is used in spinning low counts for hand looms up to 14s or 15s, and is

commercially called Bengal variety

3956 Difficulties in dealing with "deshi" long staple cotton -This includes all the other qualities grown in India with Indian seed and covers a very wide range of varieties of cotton when looked at from the spinner's point of view. This cotton is used by the mills for spinning 16s to 24s and also as far as 30s

(2) The defect in this variety is mainly the leaves that stick to cotton and make it duty in the districts where this variety is grown are in the habit of picking lapas from the ground after it has dropped from the plants and get mixed with the dry leaves which stick to the fibre so much that it becomes almost impossible for the spinners to get rid of them entirely in spite of the very rigorous treatment to which they put the cotton before spinning Sometimes this defect is visible in cloth also and makes its appearance bad It is a matter of great pity that owing to the farmers sticking to the prevalent oustom, they spoil cotton to such an extent that percentage of loss becomes a great burden to the spinner From experience, I can confidently say that if this custom were by some means stopped, the spinning qualities of this class of cotton would improve materially, as the cotton in this case would not be subjected to the same recurring process of cleaning in order to get rid of the dirt and the injury done to the fibre would be stopped. It would not be out of place to mention here that some varieties of cotton although possessing the best spinning qualities

are so dirty that the loss does not in many instances amount to less than fifteen to twenty per cent

(3) The second great defect in some districts where this quality is grown is the most abominable system In some of the Berar districts, bags of loose cotton are spread out of watering loose eotton before pressing in the afternoon previous to hilling on ground which has been completely wetted by water layer of bags is stacked over this and this layer of bags is watered to dripping point and this process is continued till the stacking is finished and then a thick piece of gunny soaked in water is spread on top of the last layer and the stack allowed to remun in this manner until the morning when the cotton is taken out of the hags, well mixed, and then pressed In some places, a special man is deputed to water the stack by means of a hose pipe twice during the night, once at about 12 o'clock and again at 4 o'clock in the morning, say an hour before the mixing commences. This procedure, while making the purchaser of the cotton a very heavy loser in weight, discolours the cotton and weakens the fibre and thus the original qualities in the cotton are Although numerous attempts have been made by the different merchants and the Chambers of Commerce against this practice, nothing so far has been done to wipe out entirely this defect I am strongly of opinion that nothing less than strong legislative measures would compel the doers of this misch of to abandon The Government of India have not up to now thought it necessary to legislate in this behalf and suggestions have been put forward for the establishment of sample houses where cotton could be tested and a suitable allowance determined to be paid to the purchaser for the defect. This, I have not the least doubt, would work satisfactorily for some time, but looking to the continual shortage of the world's eotton erop to meet the demands of the cotton mills increasing continually every year without a corresponding increase in the area under cotton, the position of mills would become very critical and, instead of buying cotton on the basis of sample houses, they would have to content themselves with whatever cotton they would Taking for granted that the position of the spinner would not get so serious by keeping the cotton crop apace with the additions in the number of new cotton mills, there crops up another difficulty to which there does not appear to me a solution The merchants would start fixing two rates for the same class of cotton one with the sample house survey certificate, the price for which will be fixed higher than for the cotton without This would continuo for some time and gradually there would be more transactions withsuch a certificate out the survey certificate than with the certificate. This would again help those people addicted to the nefarious habit of tempering with cotton and thus the system would slowly dwindle down to almost nothing I have seen in some markets the very same sort of thing happening and the sales without survey certificates becoming more popular than the ones with certificates

(4) Under these circumstances, I very strongly urge that the malprictice now current in the districts

where this cotton is grown cannot be stopped without proper legislative measures being adopted 3957 Difficulties in dealing with exolic colton—This viriety is mainly grown from American and Egyptian seed in some portions of India. The quality so far produced has been very successful and I think that, with proper care of the fields as the preparing manuring, and sowing, the quality would not only be maintained but improved. The greatest care must be taken to arrange for separate ginning of this variety to avoid United Provinces

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[Continued]

the mixing of seed and periodically, say, every two or tineo years' the seed must be changed by fresh imports from America and Egypt Seed farms in suitable places must be established for distributing seed to the farmer Arrangements should also be made either through the Agricultural or the Revenue Department to give suit

able directions and hints to farmers for the proper handling of this variety 3958 (45) Effect on cotton market of replacement of short-staple cotton by long-staple—The replace ment of the short stuple cotten by that of long stuple would have a very peculiar effect on the cotten market. The price of long stuple cotten a ould go hand in hand with the price of cotten of the same quality green in America. The countries that at present depend on most of their supplies from America would look to India to supply their wants, it not in full, at least for a portion. It would chiefly depend on the quality of cotton grown, how the foreign merchants come into India and try to purchase this cotton. If this cotton would be able to replace considerably the American cotton, I am afraid India would see very high prices as the main competitor would be Japan, who on account of its near situation, would try to capture a good quantity, unless some protective measures were adopted by Government to safeguard the interests of the Indian mills and which I would strongly advocate

Messs Jai R in D is and Sri Ram Khanna, representatives of the United Provinces Chamber of Commerce called and oxamined

3959 (President) Mr Jan Ram Das —I am a cotton merchant I bring lapas from middlemen and gin I do the selling and my partner does the ginning. I find a mixture to a great extent in American But at the Government auctions in the Punjab the percentage of mixture is announced before it myself I belonged to Lyallpur originally I buy extensively in the Punjab, but do not buy to any great extent

the United Provinces

3960 (Mr Wadia) I find much damping in the cetten that I buy from the villages. The damping is etimes done intentionally. The lapas is brought in in big carts. The upper layers of the cart are not upper. It is generally in the middle layers that ve find the damp cetter. In such cases we cut the price and the lapas is the later than the lapas facts are taken into consideration when reaches sometimes done intentionally There is some adulteration with leaves and dirt, but all these facts are taken into consideration when we fix the price of the cetton purchased. I gin myself and sell the cetton to the mills here or send it to Karachi and Bomhay. The adulteration and damping and mixing of cottons hold ginned as well as lapas could be stopped in two ways It could be stopped by forming co operative gumerics with a view to keeping up a proper standard of gunning otherwise legislation is the only remedy

3961 My guis work under a pool arrangement both at Lyallpur and Chuk Jhumra The pool is only a

ginning pool and not a buying pool. My partner is Malik Mathuradas at Lyallpur 3962. I do not know whether we get a comparatively better price for mixed cotton than for pure American cotton in Bombay Tho reason for the mixing that goes on is that, in the Punjab, American cotton is fetching a very lugh price in comparison with deshi and the mixture takes place in order that the deshi which is mixed cotton in Bombiy with a certain quantity of American may be passed off as American and thus fetch a higher price. This mixture is done fraudulently. Mixing with deshi does not improve the colour of Cawingere American. My cotten sent down to Bomb iy is subject to survey there as any hedy close's. We do business in Bombay through our commission agents and our cotten is subject to ill the conditions of the market in Bombay including arbitration. Heavy penalties are at times imposed by the arbitrators for mixing but up till now

we have never had any occasion to resort to arbitration

3963 I have stated in my written evidence that the cultivator has to face great difficulties practically at every step and is therefore unable either to improve the condition of the field or the quality of the crop reason for this is that the moment the cultivator finds his crop rouly in comes the demand for ievenue and rent Ho is therefore in a hurry to throw it on the market and the foremost idea that enters into his mind is that his crop should be the very first one to enter the market and so to bring him a price (better or otherwise is no question). In his hurry he does not look to the quality of his article, but he is only anxious to get into the market as quickly as possible. He cannot store it he must part with it to meet the demands for rent and revenue If some adequate financial faculties were anoraged to the continuous, properties the collection of revenue must be changed. There are some other If some adequate financial faculties were afforded to the cultivator, prospects would changes required in the line. For instance, the idea is that the current years produce of the cultivator is hable to ferfeiture for any arrears of iont of the provious year. It would be heneficial if the law were altered so as to make the current year's crop only hable to forfeiture for the present year's revenue or rent only. The time for the collection of revenue is too close to the time when the cotton is ready. The revenue falls due in May and June and the second collection is some time in January. The time varies in different states of the collection of the collection is some time in January. districts The cultivators should be able to get loans from co operative banks to pay their revenue and to enable them to hold up their produce.

3964 There are a number of intermedianes between the cultivator and the ginner Usually two all depends upon the custom of the market and sell it through the commission agent. Sometimes the cultivators hring their produce into the market. The commission agent is always there. The commission agent

only gets his commission, sometimes eight annus and sentetimes thelve, and some incidental charges 3965 (President) The cetton forecasts as they are at present are fairly accurate. The work is done by the patuaris. These men semetimes go round the villages and sometimes they do not. They do not report the condition of the crop exactly, but they simply say whether the crop is good or bad. If the statistical work were taken away from the patwaris and placed under the control of responsible authorities, it is bound to do

a lot of good

3966 The suhmission of ginning and pressing returns should be compulsery for all ginneries and presses 3967 The publication of Liverpeel market prices would be useful to the zamindars as well as to the dealers but, under present conditions the Bombay murket reports would be more useful I doubt, however, if the cultivators are in a position to realize their importance and the ginner and middlemen get to know their

centents in other ways

3968 (Mr Roberts) My Company is the Lyallpui Sugar Company We also act for Messrs Tata's I do not know how many bales we pressed last year. All the bales did not go to Bombay, but some came to Caw npore. For a maund of ginned cetten delivered here, I got Rs 40 to 43, but later on I was offered Rs 48 when I had no cotton to supply. That rate was offered after the rams. In 1914, I got only Rs 16 to Rs 17 for a maund of 100 lbs. of cotton, delivered here but that was offered. to Rs 17 for a maund of 100 lbs of cetton delivered here but that was an alinermal year I have never bought any Cawnpore American In my opinion, Punjab American is better My experience with the local mills is that they are quite satisfied with Punjab American I get it ginned at Chuk Jhumra United Provinces]

Mr J N COCOLAS

3969 Mr Sri Ram Khanna — I agree The Punjab American is not mixed 3970 Mr Jai Ram Das — I live not got a factory in the Lower Bari Doub Colony, but I am contem

3971 As to whether I got a better market for Punjib American in Bombiy than in Campore, it depends npon circumstances Sometimes there is a better market in Bombry. In Bombry we deal with commission agents, here we deal directly with the mills. The quality of the Punjab American crop is keeping up very well. There has been no deterioration. I think last year's crop was better than that of the year before. That was the opinion given by the Figin Mills. The cotton was purelised mostly from the nuctions. Some was purelised from cultivators too. The opinion of the zamindars in regard to the American cotton is favour. purchased from cultivators too able I came to Campore in 1913. I have had experience in Lyallpur for seven active. I used to get a considerable quantity of American cotton from Ji ing District. I think that auctions might be successful I see no reason against it

3072 (Mr Henderson) I know American cotton is being grown here in the United Provinces, but I have never dealt in it. In my opinion Punjab American is better than Cumpore American. I have heard that it sells at a premium of Ro I over deshi. This premium is not sufficient, in the Punjab we are getting a

price of about Rs 17, whereas the price of deshe is about Rs 12

My reason for 3973 The extinction of deshi cotton would be harmful to the cotton industry in general saying that is that long staple cotton is generally weal in strength and unless deshi cotton is mixed with American, the latter is not sufficiently strong. I have not any personal experience as a spinner 3974 (Mr. Hodglinson) Cotton lies under cover in my ginning factories. It depends on weather

conditions as to whether the weight mereuses

3975 (President) Mr Sri Ram Ahanna -I am a spinner As to damping and adulteration the cotton is sold by the cultivator in small quantities to zamindars who again sell it to petty merchants, who sell to the mills through the aratya. The cultivator damps the cotton to a cert un extent. He sometimes does it dok berately and sometimes it is proked wet. He does not worry much about the condition of the cotton hunded over to the petty merchant. The intermedianes also do not worry and may add more moisture. It often happens that cultivators, when crossing a river, throw water on the cott in in their earts. This is not so bad now as it used to be two or three years ago. The sinuries pay lower price for such damped kapas. I do not deal in kapas and cannot, therefore, say exactly who is responsible for this damping. I think it is mostly the ginneries who are responsible for damping before pressing and it is sometimes done by the owner of kapas

3976 I buy biles on simple and open up the biles before buying. When we get the biles from a respect able firm we do not worry much. We open two to three per cent, and sometimes as much as five per cent. List year I bought some Punjah American from Li illpur I sent for a sample of Campore American but was too late to get it as there was only a very small supply In my opinion, on the whole, there would be a great market for long staple cotton if the growing was looked after properly. It would suit my business

3977 (Mr Wadia) We spin up to 22s from the deshi long stuple. We use deshi long stuple coming from Decean for these counts. I mean by deshi long staple Westerns and Oomers. The Deshi cotton here is no good for 20s. My personal opinion is that, if deshi cotton were replaced by long staple, the prices would be regulated on the basis of American. There would be great competition in securing cotton and the result would We use deshi long staple coming from be that the Indian mills would suffer and the only was to would this risk would be to adopt protective legislation in the interests of Indian mills. I have not discussed the matter with my Chamber. My mill is the Ram My mill is the Ram I have 9,000 sprudles and no looms Chand Guraliamal Cotton Mills Co, Ltd, Lucknow

3978 In addition to damping and mixing, particles of pod and leaf stick to the fibre oven after cotton annel. This is due to bid picking in the first instance.

3979 I have not considered what hand of legislation would be most suitable. I think that legislation would stop in alpractices. I should say that sample houses would not work. You would send in your sample there, and a certain robate would be fixed if the cotton was found adulterated. The result would be that, owing to rebutes, the merchants would get annoyed and they would say that the would not sell any cotton on the condition of its being surveyed in the sample house. Then the result would be that people would buy without the aid of the sample house and thus it will be a failure. It is a bad practice to adulterate anything before it comes to the market and I should thinly that some punishment in the shape of fine or something of the kind should be imposed for such an offence. I think the gimers and presses are the main enliprits. It would be suitable if ginneries and presses were licensed and the commission of the offence of adulteration were followed by the penalty of withdrawal of the license

3980 (Mr Hodglinson) The sample from the bales is generally taken from one of the ends of a merchant of good reputation, it is only necessary to open one bale. If any defect is found, bales are opened Sometimes an extra rebate is obtained when faults are found at the centre when the up to five per cent whole bile his been opened out Samples taken from the soft side are good in appearance It is from tho

soft side at the end that the sample is taken. We do not take any a imple from the middle 3981 (Mr. Roberts) I got Punjab American. I am quite satisfied with it and I get it pure. The price that I pay for it is Rs. 41.8 or Rs. 42. I purchased it through Mr. Jan Rum Das. I have also bought on ard centricts I have found it substactory except that the ginning is bid to a very small extent 3982 (Mr Wadia) I have bought cotton from the Central Provinces I have no experience at all of

the damping there, but I have heard from persons who have been in charge of factories there that every press as a rule practices damping

Mr. J N COCOLAS, Cawnpore

EXAMINED AT CAMMFORE, NOVEMBER 5TH, 1918

Written statement

I —AGRICULIURAL EXPERIENCE

3983 General —The only remark I wish to make in this connexion is that the establishment of seed farms with a view to distributing selected seed on a large scale to cultivators would do more than anything clse to improve the quality, class and staple of cotton growing in these districts. The Agricultural Department in Campere have succeeded in growing deshi cotton of a most excellent quality, and I see no reason why this standard should not be perpetuated

II -COMMERCIAL ASLECT

3984. (30) Local trade customs —The system followed is that middlemen, as stated, cart the lapas down to the central markets where the daily arrivals are bought up by the trade and distributed to the various ginning factories of the place There is prietically no dealing in futures in Lapas Advances to cultivators are made entirely by commission agents (aratyas)

3985 (31) Standardization of commercial names—The commercial names of cotton are exceptionally suitable since they clearly state where the cotton comes from No alteration should be made and

attempt at standardization under one name would be fatal

3986 (32) Buying agencies —It is impossible, in my opinion, for any organisation to be formed which could handle my appreciable quantity of the crop of these Provinces and consequently the present system whereby the middlemen collect the kapas from the village markets and cart it to the central markets will have to continue so long as the present ginning arrangements oxist

III —STATISTICAL

3987 (33) Improvement of cotton forecast -The only possible improvement in the cotton forecast would be less delay in publication after it is worked out

3988 (34) Improvement of other statistical information —Unless statistical returns we made compulsory

they are useloss
3989 (35) Publication of Liverpoool and Bombay prices —Present publication is ample

IV -MANUFACTURE

(a) Ginning and pressing

3990 (36) Type and number of gins and presses —I have in my two factories Platt Brothers double and single roller gins 90 double roller gins in Compore, 34 single roller gins in Kanauj and one Nasmyth Wilsons hydraulic press in each factory

3991 (37) Size of bale —The size of the bale is 50"×19"×17"

3992 (38) Saw gins versus roller gins -I have never had any experience of saw gins, but I prefer the

single roller to the double roller gins
3993 (40) Factory labour — Labour is getting very searce and more difficult to obtain
3994 (41) Condition of cotton — Very often the condition of *kapas* is objectionable as it is brought
in the markets in a very damp condition, which fact not only ruins the class of the cotton but it seriously dringes the styple Cultivators should be trught to pick their lapas or op during the day in an absolutely dry condition and not orly in the morning when covered with dewas it is the practice in these districts. Buyers of the raw cotten (lapas) should also combine and heavily penalise damp goods whilst full prices should be paid for dry kapas

Mr J N Cocolas called and examined

3995 (President) I have a good deal of experience of the United Provinces I think K 22 is a very good cotton Tho mills would use very big quantities of it, if they could get it They are importing it from Ujjun where it has do no very well. It has a staple just under an inch but I cannot say what counts it can spin up to The quality is very good. Aligarli white flower cotton was sent to a spinner in Bombay who said that he was accustomed to spin cotton with two ends and not with one end. It is a good ootton as regards colour. It is mostly bought mixed. If it came in by itself in big quantities, the Japanese might buy it on account of its colour, but the spinners in India would not touch it. It might have an extensive value as gun cotton Thero is another kind of cotton in these provinces, which comes from the eastern part and is called manoa It comes in in May and June from Gorakhpur side It gives a very poor outturn, its ginning

for mixing with wool. I have seen very little from Gotakingur side. It gives a very poor outcurn, its giming for mixing with wool. I have seen very little Cawingore American. The Agricultural Department takes it all up and it goes strught to the mills, the stuple is satisfactory, being over an inch in length.

3996. I am a ginner and a trader in cotton, that is to say, I gin for myself and for nobody else. I am a direct buyer. The cultivator sells his cotton in small quantities to the village bana who sends it to the aratiga and then it comes to the mark et. If prices are low and the crop is big, the cotton comes in in a beautiful condition, but if prices are low and the crop is big, the cotton comes in in a beautiful condition, but if prices are lower the condition are available representations. tail condition, but if prices are high and the crop is low, the condition is exactly the reverse. In a rising market, the buyers do not cut prices as they are glad to take what they can get Kapas comes in so very hot that if one puts one's hand into a number of carts, it would be blistered. In the first place, the oultivator picks, early in the moining when the deak is on the plant and ground. The cotton is brought to the middle man who starts watering the ground and after placing the *kapas* on the wet ground covers it with a gunny which he also waters. The *kapas* is left there and is allowed slowly to absorb all the moisture. This causes formentation of the oil in the seed. A great amount of deliberate watering and adulteration goes on. It is difficult to say how it can be stopped by legislation as it is the small man who does it. Sometimes a deduction is made from the price of every bundle for water. The buyers combine to do this and it goes on for two of three days when the combination breaks up.

There is very keen competition.

3997. I consider the trade names of cotton very suitable. High class and high quality of Harda cotton.

sometimes experted and delivered in Europe against sales of Broach I do not see any way of stopping this It is not very difficult to tell ordinary Harda cotton from Broach For three years I was a cotton broker in Bombay It was a common practice to put marks on the end of the bales so that they could be removed when the cotton arrived in Bombay If bales were marked on the centro under the hoops, the marks could not possibly be removed. In Gwilior State, orders have been issued that no bale is to leave Ujjain unless it is marked by the press either "Pure Ujjain" or Ujjain mixed." Cotton used to be brought into Ujjain from Indore and exported and sold is Ujjain eotton. Bales of cotton or loose cotton imported from Indore and exported again from Ujjain or pressed in Ujjain are not marked. "Pure Ujjain." but "Ujjain mixed." The rules were introduced last year.

3998 I consider the multiplication of seed farms necessary as the sweepings of factories are now given out as seed. In consequence of this multiplication of seed farms there should be a large increase of the agricultural staff

3999 I consider that the information contained in the cotton forecast is quite good and fairly accurate and that its publication is necessary in order to help the tride. The dates are quite suitable, provided the forecasts are actually issued on those dates. Ginning and pressing returns are of no use unless they are made compulsory. Otherwise the factories put any figure they like and submit the returns or not as they like. The cultivators would not understand Bombay and Liverpool prices, if they were put up in the local markets. There is no buyer who is without telegraphic information from Bombay.

4000 I am inchned to take the view that the stopping of damping of cotton hes in the hands of the trade. The trade must comb ne, but the stopping of damping of laps is in the hands of the villager. There is no damping of lint in Cawnpeie. I consider it impossible to legislate in regard to damping, because I do not see who is going to supervise. A good deal of damping goes on in Berra. Attempts to stop it would only mean bribery of the factory owner. The factory owners will not take any trouble to stop the watering of cotton by the owners. There are factories in which steam pipes have been put into the cotton opener in order to enable the cotton to absorb moisture whilst passing through the opener. This is a very good way of damping cotton. There is only an opener for run the opener is not used for laps. This is the practice in Central India, in the Central Provinces, in the Berars, in the Nizam's territory and various other districts. If the laps is wet, it cannot be gimled. The percentage of moisture put in by these steam pipes is about two to three per cent.

4001 (Mr Henderson) It is a mistake to distribute a high gimning cotton like Ahgarh white flower. It is good for the cultivator because he gets a bigger outturn per acre, but it has no spinning value. The seed is spicading rapidly and is helping to spoil other cottons. It is spicading in the United Provinces and in the seuth of the Punjab. There is no cotton like it in the Central Provinces. It would spoil the trade name of any district in which it was introduced as it is so short in staple. I am very much against the distribution of any seed of that class of cotton. K 22 is a very good cotton. I do not know what outturn the cultivator

4002 I huy cotton both from irrigated and non irrigated tracts. That from the non irrigated tracts is bettor in colour but not so good in strength as that from the irrigated. The deshi in the irrigated tracts has a stronger styple, but is of bad colour. The reason is that in irrigated tracts cotton is sown early and matures whilst the monsoon is on. Cotton from irrigated tracts was brought into the market this year as cally as 20th August.

early as 26th August

4003 I am in favour of work being carried on to improve the staple of deshi cotton. There is a big demand for it—I have no deahings in American cotton—The mills buy it—I have seen Punjab 4-F—It is a very good cotton, but it has different lengths of staple and is mixed—I would prefor K—22 being grown than American—The price of American, is Rs—20 abovo Broach in Bombay, and it—would pay the cultivator if he could get an equal price here—There would be a very big market for K—22—I do not think that American would do as well round Cawnpore as K—22—If the Agricultural Department guaranteed the staple and yield of Cawnporo American, I should have no objection to it—being pushed—the longer the staple is, tho better We import long staple cotton from the south, i.e., from Bijapur, kumptas, Miraj, Northerns, Westerns, otc Unless you keep up selection of seed, exotics deteriorate—The Cambodia of last year had deteriorated from what it was its first year—That might be due to mixing, but I cannot say definitely whether it is so—I am therefore in favour of indigenous cotton—K—22 should get a piennum of Rs—40 to Rs—50 per khandi over deshi in an average year, i.e., Rs—5 to Rs—6 per standard maund of rin—That would be an average of just less than Rs—2 per maund of lapas—The malket value of Punjab American is Rs—10 per maund of lapas, the value of K—22 would be Rs—12 and that of Punjab American would bo Rs—13½—Punjab American is not very uniform in staple—It contains two different kinds of staple, as it comes into the market—I do not know whether it is grown like that or whether it is mixed as I have seen no samples of the lapas—If the staple were uniform, it would get a considerable piemium over deshi, i.e., considerably more than Rs—3½

4004 (Mr Roberts) I have no experience of the Punjab at all Bales are marked in some cases on the flat side and in some cases not at all as most of the cotton is used for local consumption, although a great deal is exported. Each balo should be marked at the press on the flat side

deal is exported. Each balo should be marked at the press on the flat side

4005. The cultivators bring in lapas damped. The moisture is intentional and not natural. A deduction accordingly is made if the state of the market permits. If two peoplo bring in lapas, one dry and one wet, the former will get the better price, hut it is very unusual that dry lapas is brought in in a year like this. All the lapas usually comes in in the same state. It is not the general practice to damp cotton in the Central Provinces before pressing but that is frequently done. It does help pressing a little. In Bombay, it is a well known practice. In Bombay, rehable selections are sold at Rs. 10 or Rs. 16 over ordinary selections so that damping is penalised to that extent in the ordinary course of trade. If damped cotton is sent to Bombay, it gets damper still on the seavoyage. For export and during the dry season in India, weights are calculated on the basis of damper cotton at home than in India as it gets still damper in transit home. If damped cotton is not sold quickly, the leaf becomes black and dampness makes the cotton smell. The cotton in Bombay in the monsoon contains four to five per cent of moisture even if it was honestly packed.

4006 There is no market in India which is not flooded with telegraphic information. The buyer is certain that everybody olse has the same information as limited. It would be a good thing to stop the publication of market opinions as that would stop speculation to a great extent. Official publications of prices and market opinions would lead to more speculation. In Campore market, the higgest crop ever placed on the market was one hundred thousand bales and yet to day we have speculation to the extent of 250,000 hales. The seller loses to day Rs. 4 a maind on account of speculation. Ordinary deshi cotton is being bought at Rs. 46.8 por maind of rui for speculation.

4007 (Mr Wadia) I do not know the rules of the testing house at Havre I had had no complaints in legard to cotton shipped to Havre although 30,000 bales were experted that year by my firm Anything that would prevent adulteration would be belpful to the trade

400b (Mr Roberts) I do not think that it would be difficult to secure for the cultivator a proper price for K 22 Better cotton than desh would get a proper price Carts are opened and made into bundles of one maind and ten seers of lapas, so that the whole of the contents of a cart are thus seen. A full price would be secured for K 22 if a thousand hales could be obtuned. Nohody would want fifty bales, except in a few cases. I could make use of it myself as I import large quantities of cotton from Uljain

4009 (Mr Henderson) There is a real demand for a good clean article and it is pessible to produce it. I do not consider that there is any need for mixing and I do no mixing myself, however large the number of grades. I consider that the small man cuts his own throat by mixing

United Provinces]

Mr B R BPISCOE

Mr B. R BRISCOE, Secretary, Cawnpore Cotton Mills.

Examined at Cawnpord, November 5th, 1917

No written statement was submitted by this witness

4010 (President)-I dishko Aligaih white flowered cotton very much indeed and should like to see the cultivation of it discouraged if not altogether stopped because I am afraid of its spreading to the detriment of better varieties and or being purposely used to adulterate them There is also a danger of the seed getting loose about the country and being unintentionally mixed with other varieties. It is a thoroughly had cotten and is practically unusable, at all events in India and especially in up country mills on account of the hot dry It is a thoroughly bad cotton charte I understand that, so far as the comparatively small quantity at present grown is concerned, it is exported and that the Japanese buy it, probably on account of its good colour which is I consider the only good point about the cotton. It is my idea that if the cultivation increases to a large extent, it may scriously interfere with the supplies of cotton which we want in Cawapore. I understand that up till now, the Department of Agriculture has, as far as possible, got back the seed and recisional in comparatively limited. ntities. I should like to see them stop re resumment altogether and also stop all propaganda in favour of It is not easy for the Indian trade to take any action in the matter as the principal market for it is an outside one

4011 I know Mi Leal e's improved deshi cottons K 22, and K 28 I like K 22 but do not consider K 28 quite so good, though I have not seen it this year. I would always pay a premium for K 22, as I I like K 22 but do not consider know it, over ordinary deshi or Aligarli white flowered, and I have bought it, as a matter of fact, at a premium from the Agricultural Department Last year I offered a premium of, I think, Rs 28 over fine deshi per maind of lint. The price of fine deshi was about Rs 32 at the time. As a matter of fact some other mills offered annas eight more and got it. There was only a small supply available, about fifty bales,

and for commercial quantities I expect the premium would have been still better

4012 I know the variety described as Cawnpore American When I was in the Elgin Mills, we guaranteed to take the whole crop two years in succession. We liked it then, particularly the variety then known as Saw ginned Dharwar, and promised to buy the entire crop up to two thousand bales in the first year, but in the end we only got about three hundred bales of usable cotton up to sample The arrangement was that the price should be fixed fortnightly on the basis of "middling American" in Liverpool and was to be 1/4d (or 1/2d) under it the first year and 1/2d the second year. The staple of the Campore American cotton varied greatly even in the same crop

4013 The best agricultural policy to pursue in the United Provinces, in my opinion, would be to

climinate Aligarh white flowered and to push K 22 in the same way as the Aligarh white flowered has hitherto been pushed. The stuple of this cotton is not very long. Last year it was between § the inch and tbs meh It is hardly a staple cotton, but it is an improvement on deshi-even the best deshi-because it is

finer and therefore gives a better 3 arn
4014 (Mr Wadia)—There is much mixing of deshi cotton It is mixed with impurities such as sand (which is a favourite method of weighting), water and also lower grades of cotton, i.e., higher grade cotton is adulterated with lower grades. I cannot say what the proportion is. I have examined samples in which the length of staple varies as much as a quarter of an inch. As to whether anything is mixed with which the length of staple varies as much as a quarter of an inent and the whole of the control is coming into the Camporo market damped deliberately by growers and by the analyss. This is probably due to the crop being short and to prices being high, which forces buyers to be less particular regarding the cotton they accept Nothing effective can be done by Government to stop damping, though I suppose that it could be stopped by legislation, but the cost in that ease would be prohibitive an enormous staff of in spectors all over the cotton growing districts would have to be employed and they would have to be well paid The prevention of mixing of different varieties of cotton his with the buyers There are dealers in Campore from whom I would not buy for the sample reason that I should expect to get mixed or damped cotton from them I expect the same applies to other buyers which can do more than anybody else to stop this practice My conclusion is that the trade is the agency

4016 I have no very great experience of ginning or pressing pools, but I know that they exist They are usually broken up before they have gone very far Every gin or press has to pay to a common fund some portion of the charges that they levy in order to provide for the factories which are not working question whether the incidence of such payments falls on the zamindar, my own experience is that the cultivator at all events gets much the same price for his lapas, however he disposes of it and in whatever quantity and that much money is made between the time the cotton leaves the hands of the cultivator and reaches the mill I cannot say who gets most of it I do not think that there would be any great point in abolishing these pools as they are, I think, more generally the result of scarcity of work, owing to the number of gins and presses exceeding the demand rather than of an attempt to put up rates unduly I have no information at present if any local pool has been formed with any object beyond that of the usual This year pressing charges are up, but this is possibly owing to the high price of gunnies and hoops Two presses are, I believe, out of action as they are pressing blues (fodder) and this may have helped the remainder to put up prices. It is true that prices of cotton in Cawapore are getting more and more governed by the Bombay prices every year. If the ginning charges and pool rates are high, the price paid for laps might possibly be lower, but it would not necessarily follow the Bombay prices exactly. If no pools existed, then the cultivator might get a little more, but on the other hand I expect that some of the gins would have to shut up It is only by means of pools that so many of them can keep going at a profit Many gins and presses could not work before these pools were formed

4016 I do not quite understand what the result would be if testing houses were instituted at Bombiy on the same lines as at Havie or what effect the testing house would have if any particular lots of cotton were found to be damped Any penalties unposed should reach the real culprit, the man who actually damped or otherwise adulterated the cotton Tho difficulty would be to get back to the real culprit, because in the first instance cotton in India is collected in very small lots and bulked by dealers, ginners and balers, lots as

[Continued]

often as not increasing in bulk as they pass on from hand to hand The establishment of such a testing house might make the final dealers more careful what they bought

4017 The mixing of lapas with lint is not nearly so bad now as it used to be We occasionally get cotton in which lapas has obviously been put in purposely after ginning but things are not so bad as they were twelve or fifteen years ago. I take it that rejection by mill buyers here is putting a stop to it. I do

not know of any other reason why it should be growing less

4018 I am not interested in any ginning factories. There was a ginning factory attached to the Cawnpore Cotton Mills, but it has not worked since I have been there. It might be feasible to have a separate entrance for lapas and a separate exit for lint. These were separate in the factory I mentioned separate entrance for lapas and a separate exit for lint. These were separate in the factory I mentioned I have not had very much to do with ginning factories, but I see the point is regards the establishment of separate entrances and exits for lint and lapas, which would tend to prevent accidental mixing by lapas dropping over into the lint. I have not had sufficient experience to say whether the licensing of ginnerics on certain conditions is feasible, but it would probably mean that so far as the above points are concerned, on ceream concinents is reasone, but it would probably mean thrue so far as the above points are concerned, many ginneries would require complete remodelling. It would be to the advantage of the tride if it stopped such mixing as now takes place. I have no experience of presses, heyond occasionally visiting one of the local presses. So far as I have seen local presses, lint is kept on the ground at the back of the press, and sand might get mixed with the lint before it is put in the press. It would be a good thing to have all presses paved, but such improvements could not be brought about linless there is some sort of beginning. Some of the ginneries or presses would not to the expense unless than were forced to do not be pressed to d Some of the ginneries or presses would not go to the expense unless they were forced to do so In regard to the question whether, if heensing were introduced, it would be a good thing to penalise a factory hy the withdrawal of the heense when such malpractices as that of damping by means of a hose as shown in the photograph on the walls of this hall were detected, I should like this done if it were fersible, but who would inspect? My idea is that there would be no difficulty in the detection of the crime, but rather when

it was detected, in getting it reported and punished 4019 (Mr Hodglinson) I saw K 22 last year It was fully \$2ths meh in staple It must have

been about that I have not seen any of it this year

4020 (Mr Henderson) During the last three years, ic, since the war started, there has been a very Previous to that, I do not know that there was very great deal of speculation in the local cotton market here much of it in the local market I do not know whether the local speculation has any particular effect upon the local mills I cannot say whether this local speculation is increasing or decreasing. If all the stories that I hear are true about the transactions that take place, there must be very large sums involved Some of the brokers full occasionally I do not think that it affects the supply of ready cotton to the mills as a rule, the speculation is mostly in 'futures' I have had no such experience myself

4021 I am not in favour of mills doing their own ginning and buying of lapas. As I have mentioned, my Board of Directors have recently, on my recommendation, disposed of the gins which we had. The difficulty is that the buying of lapas is quite a different thing from buying cotton ready ginned and requires expert knowledge, and while one may be buying cotton all the year round, the lapas season locally lasts only some two mouths in the year. I do not know whether the profits from ginning are large. I do not know to what extent gin owners as such speculate. On an everage from year to read the season locally not know to what extent gin owners as such speculate. not know to what extent gin owners as such speculate On an average from year to year, ginneries may

possibly make a profit of ten per cent in ordinary times and possibly more
4022 There is no doubt there has been much deterioration in the staple of cotton from various districts. I have found that, in certain tracts, cotton has so much deteriorated or that adulteration is so general that I have had to give up buying For instance, I have been obliged to give up buying Hinganghat It used to be a very fine cotton at one time, but it is now very inferior indeed, and if, as I believe, there is still some of the original good cotton grown there, it is very difficult to procure this pure without being on the spot to buy and gin one's own lapas, which is where reliable dealers "score" in establishing good permanent connexions with the mills It is not true that such deterioration has taken place in all The quality of the cotton from any given district varies naturally and considerably from one year This year so far as I have seen it, the new Akola Khamgaon cotton is much superior to what it was last year, while this year's Ujjain is very much inferior to last year's Regarding Broach cotton, I have heard it stated in Bomba; that Broach [has deteriorated very considerably in the last few years, which I believe to be true though I do not know much about it, as it is many years since I handled any Broach in bulk Really fine Broach is certainly still a very good cotton, but I am told that there are many I do not think that there has been any appreciable general or permanent deterioration in Even taking a series of years, I do not think that, apart from deliberate adulteration and inferior varieties

ordinary seasonal variation, the cotton of to day is woise than it was, say, ten or fifteen years ago
4023. (Mr Roberts) The Hinganghat cotton we used to buy was usually bought from local
Cawnpore dealers I do not recollect very accurately what the staple was It spun twist yarns, 15s and
16s, suitable for powerloom weaving It has deteriorated considerably of late years, due partly to the
mixing of good and bad lapas and partly to the continued use of inferior seed I should say it has
determined very much from what I have seen of the but I have not seen much of it during the last true deteriorated very much from what I have seen of it, but I have not seen much of it during the last two years I should say that a had reputation like that would to some extent affect the growers of superior eotton in the same tract. The name would get dishiked and people would not consider it worth their while

buying it at all

4024. My dealings used to be to some extent with aralyas, but of late only with the big brokers who The man we buy from is the big eotton merchant, who in his turn deals with the The usual sequence is, cultivator, middleman,—small or hig, ginner, other brokers and finally the As to whether cotton is always damped by the growers or the aratyas, I can only say that, just at present, the lapas that is coming into Camporo is deliherately damped, whether it is damped by the man who grows it or by the bana or aralia who collects it or both I cannot tell you. This year the damping is probably due to the fact that the price of cotton is going up and that "fine" cotton this year is likely to be very scarce, so that the big buyers, ginners, dealers or mills are not in a position to refuse to buy damp lapas or cotton. The remedy in normal times is in the hands of the trade to a great extent. I mean to say that the trade as a rule will not continue to buy cotton from a man who sells damped cotton I know of several dealers whose cotton I have rejected for that reason. There is no combination among mill buyers to refuse damped cotton. I would not advocate any combination among mill buyers to refuse damped or adulterated lapas for the reason that I do not think that it would be possible, and as regards dealers they certainly would not combine

Mr T H N THAILASINGS

4025 I have experience of real American and Punjab American I have used them both fairly extensively I bought Punjab American in 1914 15 and 1915 16 I have not purchased it since then because during the past season (1916 17) I was not in the country until the end of December and by the time I came back from home, the Campore Cotton Mills had already made most of their contracts and purchases This year's crop is not vet on the market I do not particularly like it, because it is always mixed, more or less with deshi, both intentionally by gimners and pressers, and accidentally in the field I do not remember what price I paid or how it compared with prices for other Indian staple cottons I

have had it very good and I have had it very bad. I know at least one dealer who admits that there are two main sorts purposely mixed and otherwise, and who quoted two prices

4026 Last year I offered a premium of Ps. 2.8 per maund on K. 22, 10, Rs. 25 per Lhandi. As to whichter that was a fair premium, I can only say that would depend upon the quality of the available ordinary deshi as compared with the quality of the K. 22 I was then offering to buy K. 22 veries I expect with as additional deshibit of the R. 2.9 very form just as ordinary deshi does from one year to another and last year I considered that Rs. 28 was a fair

differentiation between the two cottons available

II.—Central Provinces.

Mr T H N THALLASINOS, Agent, Messrs Ralli Brothers, Nagpur.

EXAMINED AT NAGPUR, NOVEMBER 13TH, 1917

Written statement

I -AGRICULTURAL EXPERIENCE

(a) " Deshi short-staple cotton

4027 (1) Experience -I am stationed in the Nagpur district where much cotton is grown. I am in this district for over four years. I am not in direct touch with enlivators

4028 (2) Varieties -The varieties of short staple cotton grown in Nagpur district are gaorani (the average quality) and roseum

4029 (6) Comparative returns —I understand that the higher limit outturn obtaining from the reseum

cotton brings in more to the cultivator than the premium usually obtained for long stapled cotton

4030 (7) Conditions affecting increase in area -All the cotton sown here is of short staple style

4030 (7) Conditions attecting increase in area —All the cotton sown licre is of short staple style.

However, sowing of roscum is increasing and the area under gacrani will therefore decrease.

4031 (8) Uses of seed and seed selection —The scod is generally used as fodder locally and what is exported from Nagpur to other districts is generally utilized as fodder. Before the war a good deal was exported to Furope. Hand ginned seed is generally preferred and used for sowing by the cultivators, but when this is unavailable, machine ginned seed is used for sowing.

4032 (9) General economic conditions — As short staple crops germinate much sooner than long staple, there is less risk attendant from climatic causes in growing the former, added to which, the cultivator gets

a quicker return

II COMMERCIAL ASPECT

4033 (30) Local trade customs —The cotton is brought in the market for sale as under —

(1) Kapas (cotton and seed as picked from the fields)

(2) Churka (hand ginned cotton)

(3) Cotton (machine guined in factories outside this market)

The Lapas and cotton is brought to the market for sale by the cultivators direct and by petty traders who buy the cultivators' kapas or cotton in their villages. Some cultivators sell their cotton before the cotton is ready for sale and this is called laone or future contract terms. This is a speculation carried on by the petty traders or malguzars at times, but on a very small scale Brolers advance money to the enlineators on condition that the production of those cultivators fields will be sold under their arat (commission)

4034 (31) Standardization of commercial names — The varieties of cotton are —

- (1) Gaorani (2) Roseum
- (3) Zoria

The commercial names of the grades are Superfine, Fine, Fully Good, Good, which I consider suitable All these grades come from one and the same area, but at different times of the seasons

III -STATISTICAL

4035 (33) Improvement of cotton forecast -Tho forecast figures at present are nearly correct so far as the are i sown is concerned, but the forceasts of outturns in quantity at times differ with the actual production

1036 (34) Improvement of other statistical information —I would point out that the fortugitly cotton press returns in their present form are very unsatisfactory, the figures received from the Native States which are at present collected by the Bombay Chamber of Commerce being particularly unreliable. I would suggest therefore that all these figures should be taken over by the Department of Statistics, and I would recommend, in this connexion also, that a system of heening of gimning and pressing factories should be instituted, as we think that if this were done, correct figures could be easily obtained. The system of heening factories in the Native States might at a later date be introduced with good results. I would also suggest that the Department of Statistics should employ a staff of travelling auditors to collect the figures from presses mills, railways, etc., and the figures thus collected would afford a valuable check on the fortnightly returns

Mr T H N THALLASINOS

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(2) I would also point out that the cotton crop forceasts might be ameliorated by drawing the estimate to a greater extent than is the case at present from non official agencies, such as local merchants, mills, gins, presses, etc., and too much reliance should not be placed on the official reporting agency which is at gais, presses, one, and not himen remaine should not be placed on the chieff reporting agency present a revenue agency rather than an agricultural reporting agency
4037 (35) Publication of Liverpool and Bombay prices—I do not consider publication of Liverpool and Bombay prices at upcountry markets necessary as these prices are already known through Bombay

agents of upcountry merchants

IV -- MANUFACTURE

(a) Ginning and pressing

4038 (36) Type and number of gins and presses—The gins in our factory are double roller (Plattiers, makers)—The number of gins in our factory are 48 double (96 rollers)—The press is a Cummin's Brothers, makers)

4039 (37) Size of bale —The size of the bale is about 81 cubic feet

(40) Factory labour -I experience difficulty in getting labour for our factories 4049

4041 (41) Condition of cotton -Generally the condition of raw cotton arriving in the market is satis factory, although in some cases adulteration such as damping, etc., is resorted to

GENERAL

4042 (46) Attitude of buyers to improved cotton -The cultivators get better prices for improved and carefully picked cotton

Mr T H N THALLASINOS called and examined

4043 (Mr Wadia) The cotton forecasts are at present nearly accurate so far as the area sown is concerned, but the forecast of outturn is very different from the actual production system of getting the figures from the various factories is not accurate. In these particles in the contraction of the Porhaps the present In these provinces, the system of sending weekly returns from ginneries and presses works well Tho figures for India as a whole are not reliable the figures from the Native States are not very reliable. Plossofer to my answer to question 34 (pragraph 4036) in regard to the licensing of giming and pressing factories. I think that system there suggested would help in getting more accurate figures. I cannot say where the difference between the forceast and the actual outturn comes in As to whether the Agricultural Department, when they made their forecasts of outturn, should consult firms like ours, it might be an advantage but on the other hand we have to depend on Government because Government is the only agency which can give us the actual The information that we gather from outside may be considered as more or less bazaar rotation of the whole, in regard to the forecasts, there is no necessity to consult the trade at all. The fortinghtly press returns and other press returns are very unsatisfactory. This complaint refers to the whole of India and not specially to the Central Provinces or the Native States. The figures which are supplied by the Bombay Chamber of Commerce are unreliable, and I therefore think that the compilation of these figures should be taken over by the Department of Statistics. As to the respects in which the returns are unreliable, I can only say that this remark was suggested to me by my Bombay firm who might be asked more about it when the Committee goes to Bombay. They will be able to reply more explicitly on I personally have nothing to suggest in this connexion

4044 I have suggested that a system of licensing of ginning and press factories should be instituted with a view to obtaining accurate figures and the only way this can be done is by legislation. I am not in a position to advise as to the kind of legislation to be adopted. In licensing ginning and pressing factories, rules should be introduced in regard to damping and adulteration. As far as my experience goes, I do not think that there is much damping resorted to in these provinces since the Bombay Cotton Trado Association circulated a notice some years ago that damp cotton would be very heavily penalised. Damping has stopped to a very great extent in these provinces since then. We very soldom get lapas in a damped condition except occasionally when the earts have to cross small rivers and part of the cart gets wet. Villagers who bring in hand ginned cotton say that they have to damp the gunny in which the cotton is packed in order to strengthen its resistance. This is only in orcuse. It is done only in the case of hand ginned cotton but not in the case of machine ginned cotton. There is not much liand ginned cotton sold in the market. Owing to the establishment of so many ginning fretories, the quantity of hand ginned cotton has been greatly reduced, but of course a certain quantity must be hand ginned as the ryots always give preference to hand ginned seed for their own sowings. As to adulteration and mixing of different varieties of cotton in these provinces, I may say that cotton is mixed. Wo have here gasrani and we have reseum. The reseum is spreading in this market. Gasrani and reseum are mixed in the ginning factory. The kapas is also mixed. Gasrani is mixed with reseum. Reseum is an improvement on gasrani. There is also gar, which is also Gaoram is mixed with roseum Raseum is an improvement on gaoram. There is also jari, which is also mixed Jari is an inferior cotton, in point of outturn but of better staplo. It is mixed with gaoram and roseum Stamed cotton is separated in the ginning factories. In marketing inferior lapas or and roseum Stained cotton is separated in the ginning factories. In marketing inferior lapas or cotton, villagers occasionally mix it with good cotton in such a way as to avoid detection. It is kept separate in the factories. There are no longer stapled varieties of cotton in this district than gaorani and roseum. By this province, I mean the Central Provinces oveluding Berar. Some baning grown the staple of which is good, but the outturn is very poor. Now all the villagers are giving preference to roseum because they get a better outturn and better price. They do not mix bani kapas with roseum. Bani is brought in separately. The local mills are very keen about it, as it is long stapled. I buy very little myself. Whether roseum is mixed with bani, when the latter goes to the ginning factories, I cannot say, but I do not mix them myself. If I buy bani, I keep it separate. As to what is the case with others, I do not think they mix because it would not be profitable for them to As to what is the case with others, I do not think they mix because it would not be profitable for them to do so. If they kept bans separate, they would get a better price for it owing to its longer staple If ginneries were licensed, we might get over some of the difficulties about damping and adulteration

4045 As regards the marketing of cotton, ill cotton which comes into the market, is sold through an yr (troker) Aralyas are at the same time both binkers and broker. They indvance money to the vil is on condition that they bring all their produce to the market and sell it through them. The aralya lagers on condition that they bring all their produce to the market and sell it through them

Mr T H N THATTASINOS

[Continued

holds a heense as a broker—In Nagpur, all the brokers have to be heensed by the Municipality—Livery buyer must have a heense as a ell—hoth the buyers and the hrokers have toget heenses—They have to pay R= 10 for their heense every year—The fees go to the Municipality—I am certain about the Negpur market, but I do not know about the markets in the other district—I think it is so at Hingainghat Wardha, Katol, Saener, Pulgaen and Wardra—As to whether it is a good—thing that these aratyas—should secure the best cotten for themselves or their friends by advancing money. I would explain that the aratyas of the Berras and the aratyas of the Central Provinces are quite different. The aratyas of the Central Province do not deal on their own account—The villagers hing the cotten to an aratya and he sells it for them. Being brokers, they are not aboved to do business for themselves—A broker—is not allowed to do husiness on his own account—I am not sure whether there are any rules preventing his doing so, but here no broker is allowed to do business on his own account—In this market, there is no swindling by these aratyas in order to secure good cotten at a less price—by alleging that the cotton is on swindling by these aratyas in order to secure give fair weight—There is no swindling by using had weights—As a rule before the cultivator hrings in his kapas, he has an idea of what the weight of it is and there is often the chance of the weight being checked by another firm in the case of refusal by the first firm—The cultivator would know which factory gave proper weight—No firm here offers a higher price than the regular market price—The price is fixed by auterion—All the huyers meet together and each of them is asked what price he is willing to pay—When the highest price—has been reached, that is considered as the rate of the day—The huyer who is willing to pay the highest price—has been reached, that is considered as the rate of the day—The huyer who is willing to pay in higher price gets the whole lot of the kapas and c

4046 There are giming pools in my district. There is a giming pool in Nagpur. There is also one at Saoner in Nagpur District. Giming factories charge different rates. This year the charge in Nagpur is about Rs. 7 per bhoja of 392 lbs. of lint. In Saoner, it is Rs. 6 13.3. It do not know how much of this goes to the pool as my firm is not a member of the pool. We confine our gims to our own trade in this district, and do not gim for any one else. There are pools amongst the presses also. The charges are shout Rs. 7 per bale of 392 lbs. not. The gloss weight comes to 400 lbs. I cannot say what prepertion of these charges go to the pools. It is a difficult question to answer whether those pools, both giming and pressing, are to the advantage of the cultivator, but I do not think that they are to his advantage. The crops have been failures for the last three of four years and the number of giming factories has therefore been more than was required by the cotton crop, but in a normal season they are not too many. It is the case sometimes that factories are erected simply for the purpose of getting into the pools and drawing a share of the proceeds. There are idle factories in a bad season, but in a good season there will be work for all the factories. It is only occasionally that factories are creeted for the purpose of sharing in the pool. The gimners as a rule buy lapas for themselves, but they gin also for outsiders.

4047 Though I have a considerable experience of ginning factories, I have not found kapas sometimes mixed with lint in ginning factories. Of course, such a thing ought certainly to be penalised. It is penalised by the briger, but an agent who despatches cotton to Bembry can mix kapas with it because he cuinot be detected. In order to prevent mixing, cotton here after ginning is packed at once and therefore kapas cuinot he mixed with hit unless this is done intentionally. In the United Provinces, there is a chance of mixing as both kapas and hint are stored in godowns loose and cooles can make a mistake and mix them

4018 The bulk of my cetten is sold in Bombay through our Firm there. We have not got any surveyers so far as I know. My people survey their own cetten and I do not know whether they engage any surveyers or not

4049 (Mr Hodglinson) It is not the case here that lapas is picked in the early morning wet with dow and that it comes into the market more or less in a damped condition. The lapas here arrives in the market dry. It is not wet at all. As regards adulteration with sand and other impurities, in this district there is very little mixture with sand and dust. I do not say that they are entirely absent in Nagpur. I have no experience of saw ginning.

4050 As regards the testing of weights by Government, in Nigpur there was a nominal cotton market sub-committee, but it did no work for soveral years. List year all the huyers requested proper management of the cotton husiness in the market. There is now a market sub-committee of which I am the chairman. The committee has introduced soveral improvements and the question of checking the scales is under its consideration.

4051 (Mr Henderson) The chief cotton markets in the Central Provinces are, Nagpur, Warda, Hingan ghat, Pulgaon, Dhamangaon Pulgaon is a small market but it is known in Bombay. The Kamptoe market has been practically now transferred to Nagpur The styles of cotton quoted in Bombay are three, Nagpur-Kamptee, Warda Hinganghat, and Pulgaon—Dhamangaon Of these, the best is Warda Hinganghat Nagpur Kamptee cotton fotches Rs 2 less than Warda Hinganghat and Pulgaon Dhamangaon is another Rs 2 less per Bombay Ihandi. That is to say Pulgaon Dhamangaon is Rs 4 less than Warda Hinganghat 4052. The chorn are the three means that the classifications for the Control. Provinces. There are other

4052 The above are the three mun trade classifications for the Central Provinces. There are other districts in the south of the Central Provinces such as Chanda. Though Chanda is a name by itself it is unimportant and the crop is a small one. The three mentioned comprise the majority of all the Central Provinces cetted. Nagpur Kamptee is reseum gaeram. Zeria is an inferior cetted. Zeria is the local name. It is difficult to give a rough idea of the different proportions of these three classes. They vary every year. The quality also varies. It varies at the beginning of the season, at the middle of the season it improves and again at the end of the season it falls off. As to the total crop in the Central Provinces and the proportion of the different classes to the total, I can only say that the Nagpur district in a good season gives about one hundred thousand hales and that includes Nagpur, Saoner, Kathol and Umrer, but I cannot give you any rough idea as to the figures for the other classes. I can send you figures from my office which would be very rehable. I should say that Warda Hinganghat would be about fifty thousand hales and

Mr N P DANTRA

[Continued

Pulgaon Dhamangaon would be from thirty to forty thousand bales.* The first class, that is the Nagnur Kamptee is reseum type of cotton with a high ginning percentage. It is a short staple cotton. The third class Pulgaon Dhamangaon is also a short staple cotton with a high ginning percentage, but the recond class Warda Hinganghat especially Hinganghat, has a better staple with a lower ginning percentage. I he class known as Berars include Comras from ontside the Warda Hinganghat tract, i.e., from Amraoti, Baducra, Akola Khamgaon and other places. I do not know nor have I heard any opinion as to whether there has been a deterioration in recent years in the type of cotton that is being produced in the Central Provinces. I caunot say whether the Warda Hinganghat type is now the same as it was twenty years ago. Not much hand ginned cotton comes into this market.

4053 (Mr Roberts) As to whether the Central Provinces cotton comes under the term Comras and whether it is the same as the Berar cotton and what is the difference between the two, I would explain that the Central Provinces cotton is much the same as Comras, but that there is a difference. The Central Provinces cotton is better than Berars and fetches a better price. Comras is a general name. These are not grade classifications but when cotton is sent to Bombay it is rold under these denominations. The care different styles of kapas which come into the market here. As to the difference between them it may be stated that between gavrani and resemi there is a small difference in favour of resemi. Zoria is inferior and fetches a smaller price than gavrani or resemi. By resemi I do not mean a pure variety. It is not pure it is mixed when picked but it contains a high percentage of resemi. It is not pure resemi. I can tell it by camination and from its high ginning percentage. In staple it is not much shorter than gavrani Gavrani is a short staple consisting mostly of resemi. The cotton here has not got a good staple. In some places in Berar you got a better staple, Akola for instance. I have had no experience of buri cotton or of Cambodia or of American.

4054 I have already stated that the returns are at present collected through the agency of the revenue officials. The Agricultural Department should talle a more active part in the collection of the information for the forecasts. Now it is done by the Tahishdar, who asks his patiels to collect the information. I do not know whether there are officers of the Agricultural Department in every centre. That is a point which can be cluedated by Mr. Clouston. The point that I wanted to camphase a was that it would be an advantage to have the opinion of the Agricultural Department on the yield. If the information came through the Agricultural Department, it would be more senantific. As to whether it would be better if, by some kind of voluntary system, Government could inform the presses of the total return for the province, the system at present in force is faulty. A post card showing the returns of the work of each factory (pressed bales) is sent to the Department of Statistics by each factory, but the que house whether it would not be better if such information were given by Government sending back to the factory in post cird showing the return for the province. It would be in proving the sending in of returns. The forecasts are published promptly enough, but the information there is not as up to date is it might be. I cannot tell you any thing more specific about it

Mr N. P. DANTRA, Agent, Messrs Volkart Bros, Nagpur

EXAMINED AT NAOPUL, NOVIMBER 13TH, 1917

No written statement was submitted by this witness

4055 (Mr Wadia) I win sorry that I have not been able to put in written evidence. My experience in the Central Provinces has been confined to this district. I have been in the district for about five year. I have been in Bhagalkot and Bhapur. Whether I stay here throughout the year depends upon the orders that I get from my head office. I was here all through the year lactiver. In other year, I went olsewhere. During my stay here, for the last five years, I have lind considerable experience of the different kinds of cotton grown in this district. The principal varieties of cotton in the Nagpur district are bain jan, and reseam cotton. A fourth variety is grown in the Kathol district, which is called tilait jans, which is a mixture of Upland Georgian and local jan. The seed of the Upland Georgian was sown, way, about the eightes. As regards the purchase of jans, we do not make any distinction between bain and jans is they are brought in mixed in the same cart. For our purposes bain and jans go in the same class. It is rather difficult to distinguish these two in the same cart of lagas. Our classification depends on the selection that we make from our heaps. If I get bain inved with jan, I give a lower price on account of the lower ginning percentage of bain, but some allowance is made for the better staple of bain.

the lower giming percentage of bani, but some allowance is made for the better stiple of bani.

4056 We have got no agency at Hinganghat. Before the war we had a sub agency here but there is none now. For the present, we oally buy in Nagpur itself. My experience is outirely confined to the Nagpur district. When we send our cotten to Bombay, we make our own classification. We have got our own commercial marks, and advise our Bombay office accordingly. We do not rely on the classifications "superfine," "fine," "fine," "filly good" and "good" to any great extent. Our best quality might be "fine," one lower than that might be "fully good" and so on. In making our classification, we have to

look to staple, colour and other qualities

4057 The market hore at Nagpur is entirely in the hands of the brokers. All business is done through the brokers. Those brokers advance menory to I under (cultivators) and the kandis bring all their produce to their particular broker. In fact overything is done through the broker. There is no direct contact between the buyer and the cultivator. All gianced cotton is anchoned, but for all lapas the buyers combine to fix the rate of the day. Of course the buyers combine, but they do not combine as regards prices. As a result it is not the case that in one day one could buy the whole quantity that is obtainable in the mark of One can only get one's own share in one day out of the whole quantity available. This is the system that has been going on for soveral years in this district and no one has over thought of improving it. It is really in the interests of the brokers that things are carried on in this way. It would be a good thing for the kundi cultivator if he could sell his cotton direct and it would be in his interests if lapas were sold by open auction.

Mr SHIVNARAIN

[Continued]

4058 We have our own ginning factory and pressing factory in Nagpur We bave got one at Amraoti We have no other factories in this district. We gin cotton for ourselves only and not but that is in Berar but that is in Berar We have no other factories in this district. We gin cotton for ourselves only and not for any constituonts. There is a pool here. We were members of it for two years, but have withdrawn this year. Under the pool rates the charges for ginning this year are Rs. 6.13.3 per bhoja of 392 bs. It is the same for pressing full pressed bales of 400 lbs. The gross weight is 400 lbs. and the net weight of the ginned cotton is 392 lbs. A standard weight has heen adopted. Of Rs. 6.13.3, I believe about Rs. 1.12.0 has to he paid into the pool for ginning as well as pressing. We have withdrawn from the pool because we find ourselves in a better position to carry on our business outside it. Practically, the charge for ginning and pressing comes to about Rs. 5.1.0. Our rates are quite separate from the combine rates. The rate we allow is Rs. 5. This covers the cost of ginning and pressing. The Rs. 1.12.0 that is paid by the factories joining the pool is an extra profit taken from the buyers of cotton which or entually comes in the end out of the cultivators' pocket. In the interests of the cultivators, it would be a good thing not to continue the cultivators pocket In the interests of the cultivators, it would be a good thing not to continue the pools, but it is in the interests of the factories that there should be a combine, especially in a poor season Of course in a normal gerson, there is no necessity for a combine but the combines are for short periods, the pools formed this year are only for two years. The members do not enter into an agreement for longer periods At the end of two years any one of the parties may withdraw from the pool advantageous to the factory owners themselves to have a combine in poor seasons but not to the trade generally I could not recommend such a radical step as the abolition of these pools

4050 There is some damping of cotton resorted to in these provinces The firms do not do it do not huy damped cotton As regards mixing of cotton of different varieties and of different pickings, I may mention that we have get our own types We do not mix our types. We huy the different varieties at different centres. There are merchants who mix different varieties of cotton as for instance, zoria which is of a very inferior quality. They mix it with cottons of higher grade. They do not mix it with roseum, but they mix it with gaorani. I have not beard that the Indian gin owners damp the cotton after ginning. Of course, there may be some unscrupulous people among them, but damping is not earried on to such an extent as it used to be formerly Cotton may be placed on damp ground Formerly it used to be damped wholesale with a hose pipe. The practice has been stopped owing to the action of the

Bombay Cotton Trade Association in penalising all damped cotton

4060 The fortnightly ginning and pressing returns are satisfactory, but with a view to get more knowledge of the crop it would be better if the figures of exports from a district in different directions were knowledge of the crop it would no botter if the figures of exports from a district in different directions were supplied. Nighur produces so many bales, but wo do not know the distribution of the produce. Some of the goes to Bombay from Nighur and some to Calcutta. It would be of much use to us if we could know how many bales of the total produce go to different places. This will show the distribution of the whole produce tion. If these figures could be got it would be very interesting. It is very difficult to get these figures from the railway returns or from the railway authorities. I do not know whether the owners of gins and the pressing factories send thour returns regularly. I do not think that there is any necessity to extent that I have mentioned, if that is possible. I do not think that there is any necessity to compel the factory owners to send their returns by law 4061. We have Platt's double relief gins in our factory. They are 28 in number. We have

4061 We have Platt's double roller gins in our factory Cummin's Patent press I have no experience of saw gins

4062 I do not think that there is any cheating going on in the factories on account of weighment When we get earts of kapas in our factory and find that the cotton is of inferior quality, we settle the price by making an illowance in the rates We deduct so much from the weight or u.e get a special allowance. The question is not decided solely by us Wo come to a mutual settlement. Of course the critmen have to depend on us, but there is the broker who watches their interest. The broker has to witch their interests as well but a middle way is reached somebow or other

4063 (Mr Hodgkinson) In the case of lapas, the bioker gets his brokerige both from the cultivator as well as from the buyer In easo of ginned cotton, he gets the broker ige only from the seller to the broker's advantage to get as large an allowance as possible if the lapus is inferior. If the allowance is too large, then be loses the custom of the lumb. He has to keep in well with his cartmen. We test our lapus before ginning. It is done through the opener. That is the usual custom. I do not think it

interferes much with tho staple

4064. Hoso pipes used to be used for damping some ten or twelve years ago, say about 1907. I have no experience before that I came to Nagpur in 1912. Since I have here I have not seen any watering of cotton. There is no adulteration of cotton with sand. I might almost say that there is watering of eotton

absolutely nono

4065 Formerly, the Kamptee market was considered a hig cotton market but some of the huyers settled down here at Nagpur, and that is the reason why tho kapas market was started here I do not think that tho grow or's interest is affected by the transfer of the market to Nigpur I do not think that this would make any difference in the price because the price that we pay depends upon the orders that we get from our principals at Bombay I do not think that the market bas been brought here for the benefit of the our principals at Bombay I do not think that the market bas been brought here for the benefit of the Municipality Of course if the auction system were introduced, it would not do any very great harm, but the present system is much better and I do not see any necessity for changing it. There are many markets like this one in the Central Provinces, for instance at Warda, Huganghat, Dhamangaon, Pulgaon and all the neighbouring markets I do not know whether there is any such market in Akola

Mr SHIVNARAIN, Broker, Nagpur

EVAMINED AT NAGPUR, NOVEMBER 13TH, 1917

No written statement was submitted by this witness (Translation).

4066 (Mr Wadia) I am a broker, and cultivator as well as a Sahukar I have got three villages the areas of which are from four to five hundred acres each
lin one village in the Pandhar district, I grow
lice, and in the two villages of Nagpur, jan cotton is grown
I have very little cotton in my villages which nice, and in the two villages of Nagpur, jan eotten is grown at the most produce 100 to 125 khandis I grow jari cotton entirely

SIT BAZONJI DADABHOY MEHTA

[Continued

4067 I sell all my cotton in the Nagpur market Besides I act as broker for about 100 to 200 cultivators on the one hand and Messrs Rallis and Volkarts on the other I generally advance money to the cultivators before the crop is harvested Those to whom I advance the money bring their lapas to me I always make it a condition when I advance money that the cultivators should sell their cotton through me and through no other broker. I have got many kundis who bring their kapas to me. As soon as the and through no other broker and through no other broker. I have got many knows and bring their knows to the As soon as the cotton is seld, whatever I recover from Messrs Rallis or Volkarts or others, I return to the cultivators less the advances made and less my bickerage I get from the cultivators four annus for brokerage per can whether the cart centains one khandi or one and a half khandis of lapas I take interest on the money advanced to the cultivators at the rate of annas 8, 10 and 12 or Re I per cent per month, according to the standing of the borrower. I also get brokerage from Messrs. Rallis and others at the rate of four annas 8. standing of the borrower For the double brokerage, I attend to weighment, recover money from the buyers, settle per eart. For the double brokerage, Lattend to weighnest, recover money from the buyers, settle allowances, etc. All earts of kapas are weighed on the weighbridge, but all earts centaining ginned cotton are weighed on the ordinary scales, dandeeka weight. The weights given by the weighbridges are accurate. They are mostly so when the earts have had to pass through streams and rivers. Only very few cultivators damp their cotton intentionally. If cotton is found damped or if it is of an inferior quality, I settle the allowances in conjunction with the huyers, but in no case has the cartman or the cultivator any say in the matter. The cartman has nothing to say but to accept the allow anco which is settled. If the cartman is dissatisfied with the allowance, he sometimes refuses to have his cotton bought that day and offers it for sale the next day But he is generally satisfied with the allowance fixed by me because my allowances are fair. I have to make them fair as otherwise I should lose my business. Most of the earts which arrive in this market do not contain a uniform quality of Japas. Sometimes xoria. But he is generally satisfied with the allowance Sometimes xoria is mixed with gaorani and jari cotton. I sell both hand ginned as well as machine ginned cotton. The brokerage for the former is annus two per half bhoja of seven maunds of 28 peunds. This works out to rbout four annas per bale of ginned cotton. I get this brokerage only from the seller and not from the buyer. Most of the ginned cotton is bought by firms like Ralli Brothers, Volkart Brothers and others who press it and send it to Bombay

4068 (Mr Henderson)—As regards the allocation of the earts coming to the market to the different firms, i.e., so much to Rallis, so much to Volkarts, and so on, this is done by the brokers themselves in proportion to requirements. The allocation is mainly done by the brokers on the basis of demand as well That is, the brokers settle the allocation in proportion to the requirement of the different firms us of supply

and the quantity available in the market

Sir BAZONJI DADABHOY MEHTA, Kt., Manager, the Central India Spinning, Weaving and Manufacturing Company, Limited, Empress Mills, Nagpur

Examined at Nagrub, November 13th, 1917

Written statement

II -- Commercial aspect

4069 (30) Local trade customs -My demi fficial letter of 3rd January 1917 to Mi Leftwich fully deals with this question A copy is enclosed herewith (Annexure I)

4070 (31) Standardization of commercial names —Copy of my letter demi official No 29 of 3rd July 1917 to Mr Findlay Shirras deals with this question—It is enclosed with this (Annexure II)
4071 (32) Buying agencies —Our system is to send our own men, whom we can trust, to the several markets, where lapas or cotton suitable for our purpose is obtainable, to make purchases for us under direc tions of the Head Office at Nagpur

III --- STATISTICAL

4072 (33) Improvement of cotton forecast—Considering the circumstances, I do not see how the cotton forecasts can be made more accurato. They are only an indication of what may be expected, though subject to chimatic changes from time to time. I cannot suggest an improvement, unless a most claborate system is adopted as in America, and even that is hable to considerable variations. I enclose a translation of our Agent's observations on this subject (Annexure III)

4073 (34) Improvement and other statistical information Cotton press returns, if issued weekly and expeditiously, instead of fortnightly, would be more useful In any case, these should be issued within a reasonable time, say, a week or ten days after the expiration of the period to which they relate ment in this direction is absolutely necessary in regard to the present All India press retuin, which is usually several weeks old on the date of issue. The Central Provinces local returns are being regularly issued within four or five days, and the All India one should not be delayed beyond ten days, if it is to serve a useful purpose Steps should also be taken to improve the accuracy of the press returns. Here too, I believe, the Control Province actions and the control Province actions and the control Province actions are the control province actions and the control province actions are the control province actions and the control province actions are the control province actions and the control province actions are the control province actions and the control province actions are the control province actions and the control province actions are the control province actions and the control province action action and the control province action actions are the control province action action actions are the control province action action actions are the control province action action action action action actions are the control province action action action action actions are the control province action ac the Central Provinces returns exhibit a high degree of accuracy, and the other Local Governments may be asked to assumilate thoir procedure in a line with the Central Provinces one, so as to ensure the best results. The Bombay Presidency figures particularly appear to be much vivide of the mark in this respect. Endeavours should also be made to obtain press returns from Hyderabad and Contral India under the Native States scems to have been found impossible to obtain these particulars from them so far

4074 (35) Publication of Liverpool and Bombay prices—The daily publication of Liverpool and Bombay cotton prices at up country markets would not be of any practical use, and it would only be money wasted Please see paragraph 4 of Annexure I

IV MANUFACTURE

(a) Ginning and pressing

4075 (36) Type and number of gins and presses—We have 161 gins in all at mine factories as por Annexure IV, 24 of which are Platt's Macarthy, and the rest Dobson and Barlow's revolving knife roller gins We have a hydraulic press at each factory worked by an oil engine

SIT BAZONJI DADABHOY MIHLA A

[Continued

4076 (37) Size of bale -Our presses turn out bales from twelve to thirteen cubic feet, with a density

of cotton pressed to 25 to 27 lbs per cubic foot Details of some are given in Annexure V

4077 (38) Saw gins versus roller gins —I helieve the saw gins ent the fibre even when finely set, which cannot often be done, and even the American cotton fibre would be in a far better condition than it is if these gins were thrown out for there is always a quantity of short fibre observable. I believe, even Platt's Maearthy gins cut the fibre, though to a much smaller extent. In my opinion, the best gins are the revolving kmfe roller gins made by Mossis. Dobson and Barlow, which do not cut the fibre, but which bave one dis advantage of curling the lint, which makes it unmerchantable. The curls are opened out in the blowing room, and we suffer nothing from a practical point of view from such a disadvantage, which is merely that of appear

4078 (40) Factory labour —Factory labour is scarce as ginning and picking seasons commence and continue nearly at the same time—But, on the whole, the difficulty has not been insurmountable, especially where the working hours and the comfort of the operatives are looked after

4079 (41) Condition of cotton—Since we huy most of our requirements in Lapas, and gin and press the cotton ourselves, we experience no objectionable conditions in the cotton we receive

4080 (42) Effect of replacement of short-staple cotton by long staple -No substantial alteration in our machinery will be needed if short staple cotton be replaced by long staple, which indeed would be a welcome change

(b) Spinning and weaving

4081 (43) Counts spun and market for yarn or cloth —We spin from No 2 to No 60 counts Our clinef markets are in the Central Provinces and Bihar and Orissa The other markets—Calcutta, Amritsar and China-are on a smaller scale

4082 (45) Effect on cotton market of replacement of short-staple cotton by long-staple — It would be a very great advantage not only to India hut even to Laneashire if long staple be encouraged and grown in place of short staple. We have to go to Navsari, Dharwar, Hubli, and the Nizam's Territory for in place of short staple in place of short styple. We have to go to Navsari, Dharwar, Hubh, and the Nizam's Territory for the long staple cotton we require for our spinnings. I attach licrete a list of our purchases during the last cotton season (Annexure VI), giving the percentages of lint from the Lapas purchased at each buying centro by our Agents. It will be noticed that the long staple Lapas gives a low percentage of lint, and the different between the short and the long staples, in some places, is as large as nearly forty per eent which makes it prohibitive for the agriculturists to grow long staple cotton. In this connexion, I submit herewith extract from my evidence given to the Indian Industrial Commission (Annexure VII). I also submit Statements showing the average strength of the several fibres tested at various periods (Annexure VIII—XI). Annexures Nos XII—XIV are copies of letters on the subject of cotton generally, which I venture to submit herewith, as the Committee may find them of some interest. I am also enclosing a comparative statement (Annexure XV) of prices of American, Egyptian and indigenous cottons bani (long staple) and jani (short staple), just to show that at times it has been cheaper to import American cotton via Liverpool than to buy long staple in India. Even where the prices seem somewhat higher, American has heen found advanta buy long staple in India Even where the prices seem somewhat higher, American has been found advanta geous, as it gave greater production and better strength

ANNEXURE I

Copy of letter, dated Nagpur, the 3rd Ianuary 1917, from Sir Basonji D Mehta to Mr C G Leftwich, I C S,
Director of Agriculture and Industries, Central Provinces

With reference to your demi official of 7th ultimo, I have consulted all my men who are buying cotton for our mills in the various markets of the Central Provinces and Berar as well as other Presidences in regard to the proposal for the publication of telegraphie advices about Bombay cotton prices and other cognate

matters and give helow my views

2 The Hon'hle Mr Standen's description of the usual practice in Berar generally applies to our local markets, but so far as I know, the huyers in Nagpur and all other markes meet togother and formally declare the rate of the day on receipt by most of them of information from their principals in Bombay It is not uncommon for the seller to refuse a huyer's offer for quality not up to standard, or which is below the rato he expected He takes his eart to another huyer or even brings at hack to the market and waits his chance till the next day

3 The information given by you to the Punjab authorities is in the main correct, but you will please understand it is only a very small proportion of the actual cultivators who bring their crops to the recognized markets. The proportion of the total cart arrivals, which is brought by the cultivators themselves, is stated to be only about a fourth of the whole in the Central Provinces and about a half in Berar. The rest of "sellers" in these markets are really middlemen who make their purchases direct from the ryots at their fields or homes. It follows, therefore, that any scheme which contemplates such changes in the existing conditions as to ensure the cultivator getting the best value for his produce would therefore have to he considered separately so far as it affects those who sell their produce in the markets as well as the larger

number who do so in the fields

4 Taking the markets first, I agree with the Hon'ble Mr Standen that the putting up of telegrams every morning announcing the Bombay prices would not only be impracticable but also serve no useful purpose An ordinary cultivator would not comprehend the Bombay value of lint cotton, what he cares for and under stands is the price which he receives for his own Lapas, and it would hardly be feasible for Government to work the latter out on any rigid basis of calculation from day to day Every buyer, though guided by the declared market rate, arrives at the equivalent kapas price in his own way according to his own expenses and requirements A large firm like Rallis or Volkarts having its own factories, may be calculating about Rs 5 only per bale for ginning and pressing charges on the basis of their actual cost, while other buyers may have to take into consideration these at the usually lugh levels—anything from Rs 10 to Rs 14 per bale—charged hy Again, the price to be paid for kapas depends on the percentage of lint out ginning and pressing combines turn which varies a good deal with the Lapas of different qualities and localities arriving in the same market It would, therefore, be very difficult for Government to give the cultivator an idea of the equivalent lapas price on the basis of the Bomhay cotton prices Besides competition among buyers who get daily and even hourly advices from Bombay is usually so very keen as to defeat any attempts at forcing down prices helow their natural level. In fact, barring aberrations due to unforscen factors or local circumstances, etc., and surveying the price movements as a whole, the mojustil markets in their ups and downs will usually be found

Continued

to be a faithful reflex of the Bombay prices. At times when cotton is on a rising tide from day to day, buyers in the mojussil often pay rates which are even higher than the Bombay parity, and so too when the situation is stagnant or dull the mojussil prices may be found relatively lower, but, on the whole, the seller in large markets has the advantage of operating amid conditions where the law of supply and demand has more or less full play and where competition between rival interests results in a very reasonable price being fixed

consistent with the Bomhay parity from day to day

5 As regards the difficulties and abuses, these, as the Hon'ble Mr Standen rightly points out, have
no relation to the market prices, but are due to unscrupulous and collusive action by brokers and buyers
against whom the market rules are not rigidly enforced. In Berar, the evil practice of aratigas buying under
other names seems to he extending in all markets and requires to he put down with a strong hand. Such a
practice, as Mr Standen shows, naturally gives rise to abuses to the detriment of the ryots' interests. The
aratiga system seems to be non existent in the Central Provinces where the dalais merely act as mere
intermediaries between buyers and sellers. All my buying agents tell me that these dalais invariably take
the cultivators' side in legard to all disputes about quality, price, etc. The aratigas too are reported to he
acting in precisely the same manner unless when their own interests clash with those of the sellers in which
ease the latter must suffer. Where competition is keen, even the dalais act in collusion with the buyers who
pay them more than the rate of brokerage fixed by rule in consideration of their hringing to them a large
proportion of the carts. Many sellers are in the hinds of particular dalais we have advanced them
money, and though they may find it not to their interests to go to them, they are compolled to do so hecause
of their indebtedness. Gradually every buyer has to follow smit, and the higher rate of hrokerage hecomes
the rule rather than the exception. The buyers take this in their calculations as an extra charge on cotton
and regulate their purchasing prices of lay as accordingly, thus passing on the hurden of the former on to the

scilers in the long run
6 The Market Committees or Local Bodies can do much to see that their excellent regulations are strictly observed, but, with all this, such evils are inseparable from a state of society where an ignorant peasantry has to hold its own against hard headed business people in the persons of buyers and brokers, some of whom would

not liesitate to stoop to any nefarious practices to servo their own private ends

7 With all the attendant abuses, however, the market system is, in my opinion, in the hest interests of the sellers who, after all, fare usually better by hringing their produce in the markets instead of disposing of same in their own fields. These domestic sellers again can be divided into two categories. A proportion of these people sell forward long before the crops mature, while the rest, owing to small quantities, proverty or other disabilities, sell their produce to middlemen during the season. The first class is compelled to sell forward owing to financial embarrassments or other difficulties at usually very low prices. This class, as a rule, may be expected to carn a much better value only if it is possible to wait till the crop is hard ested. Government can belp these producers by enabling them to obtain a reasonably cleap credit on the pledge of their potential crops through the agency of co operative societies or other sources. I understand that such for ward sales of crops at very low rates are steadily diminishing and are resorted to only in cases of extremo necessity.

8 Ås regards the other class who sell their produce to big cultivators or middlemen, I am informed by many of my own men that the latter usually pay about the same price as that prevailing in the adjacent markets or slightly less just to cover carting clarges. It seems to me this can hardly be the case. The middle man is no philanthropist. Ho is out to make profits, and whatever he gains must come from the pockets of the cultivator. Even if he pays the same price as in adjacent markets, he must be recouping himself in other ways. The commonest trick he plays with the seller is in regard to weighment. I understand these dealers usually take over all lapas from the ryots on weighment against stone pieces of alleged standard weights and a good deal of fraud is hoing practised on the unsuspecting sellers in regard to these stones. I think this evil can be effectually checked if the State provides facilities for obtaining standard iron weights in every cotton village and after advising all cultivators through Government officers or other village head.

men, prohibits the use of any weights other than these standard ones

9 As regards the prices paid for these purchases in the fields, it frequently happens that the dealers are at times heavily hit if the market takes a downward course and the cultivator actually gains a good deal by getting advantage of higher market conditions which may prove transitory, but then there are equal chances of the market rising, and on the whole, the cultivator hy selling privately must needs suffer as he loses the great advantage of open competition amid a large number of keer huyers. It is also likely, in these individual sales in the fields, the dealers must be getting the better of the cultivators in regard to prices owing to their comparatively superior knowledge of market conditions. It would therefore be desirable if the daily lapas rates of the nearest regular markets are made known in every village through the agency of kolucils or pativaris or village headmen for the guidance of the cultivators in their bargains with middlemen

10 But after all, these measures, even, if brought into effect, are but pulliatives. The dense ignorance of the average peasant makes lum peculiarly susceptible to every form of economic injury when he comes into contact with a stratum of society even a little superior in intelligence to his own and what we are discussing is, as you know, a solitary phase of the same phenomenon. As Mr. Crosthwaite put it before the Industries Commission, his income is low enough and he is heigh bled white at every turn. No amount of disjourning here and there will fit him for the hattle of life in all its phases. We can only hope to strike at the root of the mischief when the idea of universal elementary education comes within the sphere of practical politics.

It take the liberty to enclose herewith a summary of the opinions on the subject matter of your enquiry, exactly as received from our buying agents in the Central Provinces and Berar as well as some of the large markets in other parts of India. Their conclusions may not be logical in all cases, nor all their suggestions practical ones, but I send these extracts for what they are worth knowing that it will interest you to have an insight into the points of view of a typical set of people having no interests of their own to serve, who come in daily intimate touch, and do business worth lakks every year with all classes of cotton sellers in many of the principal markets all over India.

ENCLOSURE (1) TO ANNEXURE (I)

Reports from our cotton buying agents on Professor Todd's proposal and other cognate matters Dated Nagpur, the 3rd January 1917

Wardha —We note Government contemplate publishing telegrams about Bomhay cotton prices in every cotton market Here cultivators' carts are about a fourth of the whole, the rest are all dealers. Even the

SA BAZONJI DADABHOY MEHTA

[Continued

latter do not get my information about Bombry prices. We cannot think of my other way in which matters can be improved for the cultivator, but possibly, if cultivators happen to know about telegrams being posted in the markets, they may be coming there in larger numbers.

m the markets, they may be coming there in larger numbers

Hinganghat—We do not see any advantage in the Government proposal to publish telegrams of Bombay prices in cotton markets. The buyers cannot conceal reports about bust or dull markets even if they wish to Further, the rates in our market are usually higher than Bombay parity and so there is little advantage in such publication. Only one suggestion occurs to us for improving matters for the oultivators. We have no assurance about the actual crop till almost the end of the season. This year the season is nearly over and yet some people speal of an eight aims crop and others a four aims one. If Government, even at some extra cost, manages to turn out an accurate forecast by the commencement of the season, the big and well to do cultivators would keep back their lapas and sell only when the market rises, or they might sell quickly if a large crop estimate points to lower prices in future. Thus might benefit the oultivators to some extent though not much. The cart arrivals in our market consist of one fourth cultivators and three fourths of dealers' carts. The dealers who buy from cultivators in their fields do not get lapas at any lower rate at all. If the rate in Hinganghat is 120, they also buy from the oultivators at 120, but then they play tricks in weighment, or some water the lapas or cotton to male it heavier before bringing it in the market for sale. This can be remedied by Government giving standard iron weights to all cultivators. Again, you should not imagine that the cultivators always lose by selling to dealers from their fields. Many a time the former sells during a strong market at high rates. The market suddenly takes a downward course and the dealer is thus ruined. We have also as ded some of our other friends, who are opinion that, while there would be no tangible advantage from such telegrams, Government will mear a lot of immeessary expense to be recouped by extra taxtion, which will ultimately come from the pockets of the poor ryot.

Warora—We consulted a few malguzars, who approve of the Government proposal. They say that mere Bombay rates would be useless to the cultivators. The Warora equivalent for lapas should also be mentioned in the notice exhibiting the telegram. The notice should also be exhibited at all principal "nalas" from which lapas carts come to our market. The proportion of cultivators' carts in our markets is about one fourth, and dealers' carts three fourths. In our opinion, if the buyers here are paying less than Bombay parity, such notices would be advantageous to the sellers, but not when the case is reverse

Alola—We do not see any advantage in the Government proposal. All binyers receive telegrams from Bombay which soon become public property. All lapas earts are bought through aratyas or dalats, who always talled the side of cultivators and manage to get for them the best possible prices, because they receive one per cent broketage. But the cultivator suffers much for some time past by the practice adopted by many aratyas and dalats of buying their cultivators' lapas under other names, because then they are said to value the cotton very strictly and also not to give correct weighments. They are bound by an agreement with the Municipal Committee not to trade in their cultivators' cotton, but still do so with impunity owing to laxity of control on the Committee's part. Here the proportion of cultivators' carts is three fourths, and dealers' one fourth. The dealers who purchase from the fields and bring carts in the markets for sale run the risk of profit or loss according to market situation.

I cotmal —Tho Government proposal is worth consideration, but in our experience mofussil rates do not much depend on exact Bombay parity. If the market exhibits a declining tendency, buyers would fry to purchase here at Rs 5 or 10 per candy less. If the market is brisk, purchases at even higher rates than the Bombay parity are not uncommon. The rates in mofussil markets also depend on the number of purchases. If the latter are a-large number, the cultivator gets a very good rate owing to competition between them. If however, the buyers are few and arrivals large, the rate would to some extent be favourable from their point of view. You should not imgine that the cultivator suffers any loss by not I nowing the Bombay rate. Not would be a gamer by such telegrams. In fact, the cultivator as well as the dealer who buys from his fields are both illiterate and would not understand the significance of Bombay rates. We think this arrange ment would only be welcomed by small buyers, who would know Bombay prices at Government expense. If Government could effect some necessary alterations in the Cotton Marlet Rules and see that the latter are rigidly enforced, the cultivators' interests would be effectively protected. The enlitivator badly needs protection igainst what he suffers from the collisave trickeness of the buyer and aratya or dala! In Anmost the market rates are usually declared very high ones, but dalals combine with huyers and agree to inneces sary reductions in rates and weights. The prevention of such frauds is much more advantageous to the rvot thin mene publication of Bombay telegrams. The Hon ble Mr. Standen has inside these points quite clear in his circular letter. He will do the Berar cultivators a real service if he misses on Cotton Market Committees stamping out such malpractices. The proportion of carts in our market is more than half declines, rest cultivators. Now the dealers do not get any great profit from their puichases. The costs of entage interest, and the risk of decline in mall et are all

Pandharkauada (Berar)—We have consulted many in the cotton trade, who are of opinion that information about telegraphic advices from Bombay, if put up at the markets, will soon spread among all cultivators. Otherwise the Government might make amangements with dalats to inform every one who brings his carts in the market. But mere Bombay rates would be of no use. The cultivators will only be able to understand the equivalent price of Lapas, and Government should give this information to them as well. In our market, the proportion of carts brought by the cultivators themselves is about ten amins, and other dealers or middlemen six amins. If Government is in carnest to improve conditions for the cultivators, we thind, it must stop all dealings by middlemen. The latter usually deceive the buyers also, as they water the lapas before bringing it in the market. Many are also of the opinion that even want of knowledge of the Bombay rates does not prevent the cultivators from getting full value for their produce. It is difficult for buyers to conceal the Bombay situation, and cultivators here generally get a rupee of two over the Bombay parity.

*Umre**—The proportion of carts coming in our market is one fourth of cultivators' and three fourths.

Umre —The proportion of cults coming in our market is one fourth of cultivators' and three fourths of middlemen's Information about Bombay prices can easily be spread among cultivators in the following name: The Inhightar should receive telegraphic intimation from Government about Bombay prices, and that officer will inform the Islands of all villages where there are cattle pounds, and the Island should be

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[Continued

made responsible for communicating these prices to all villages which are served by such pounds In this

way such news will reach every cultivator

Umri (Nizam's Territory)—Here the bulk of the crops is invariably sold long before maturity, as the If any balanco remains, this also is sold by cultivator wants money for his agricultural and other expenses He does not bring his carts to the mark et Telegraphic advices of Bombay prices would him in the fields only be of use to the cultivator if Government helps him by means of loans and prohibits him from making If the oultivator sells on the basis of Bombay parity after his crops are ready gamer, not otherwise. In this market, ready lapas is brought almost entirely by forward sales of his erop then only he would be a gamer, net otherwise middlemen or dealers. The cultivators' earts do not aggregate even an anna in the rupee. In Parban, Jahn, etc., where, though it is not the custom to sell forward, the larger proportions of earts are also brought by middlemen If telegraphic advices are posted in these marlets, there is every probability that the cultivators on learning this may bring their earls to the markets themselves instead of selling off their produce It is also desirable for such advices to be posted up in the cultivators' own villages to dealers

Lyallpur (Punjab)—Small dealers and middlemen usually pay to the cultivators less than the intrinsic in of their crops. Here the earts brought by the cultivators themselves are about four annas in the rupec, set being small dealers. The latter, on learning news about the strong condition of the mullet at worth of their crops the rest being small dealers' Bombay and Karreln, proceed to up country markets and buy up from the cultivators what they can 13 ot, even if he wishes to learn news about the Bombay or Karachi markets, could not do so, he himself being quite illiterate, and his educated neighbours would not care to explain to him the marl of news from the papers every day. The best way to overcome this difficulty is for Government to open marl ets at all places and post there a competent clerk in charge who should receive telegrams about the Bombay and Karachi prices and explain their contents, in equivalents of the local weights for lapas, to all the cultivators who may be coming in such mail ets and advise them not to sell at less. Again, some of the owners of factories here frequently enter into a combination to stick to a low rate for buying cotton irrespective of market Government must take steps to prevent such unfair dealings by which the cultivator suffers loss. No scheme for the publication of Bombay prices will be of any avail to the large number conditions unnceessary loss of the poolest classes of cultivators whose financial embarrassments compel them to sell forward a portion of their crops at very low prices, which make them sind deeper and deeper in poverty. This class he very first claim on such assistance as the State can manage to give by cheap loans or any other way This class has the lugger cultivators and all others are in a relatively better position to protect their own interests

Shegaon —It would be very difficult for Government to publish accurate information about rates because buyers get telegrams every hour However, an arrangement by which the previous night's Bombay rate is made I nown in the whole mari et by means of a notice is worth a trial. It is also desirable that patels or other headmen should be instructed to send a man to the nearest market to bring information about the prevailing lapas into every day and this news must be proclaimed throughout the village and a notice thereof posted at every village "nala," so that the whole body of cultivators may be conversant with the ruling malet rates

Hingoli (Nizam's Territory) —The Government proposal is likely to benefit the cultivators in the long ningon (Mizam's Termony)—the Government proposal is in cry to bencht the cultivators in the long num but the cultivator being absolutely illiterate, it will be some time before he comes to appreciate the advantages of the scheme for the publication of Bombay prices. It will also benefit small traders, who, without any howledge of market conditions, go on buying in the wake of bigger people and many a time find themselves stranded. The cultivators here sell seventy per cent of the crop at low rates in their own fields, and only about thirty per cent of the crop is brought by them to the market.

-Out of the earts coming in this market about half belong to the cultivators and the other half We do not see my advantage in the Government-proposal, as all the carts which arrive here are sold through dalals who are all aware of Bombay prices, and so the seller does not suffer any loss. If Govern ment is anxious to publish these prices for the benefit of cultivators, the best course would be for the patels and pateurs of villages to receive this information from Government and to circulate same among the entire hody of the persintry

Mirpurl has (Sind) —The Government proposal is a very good one, but it would only be of advantage in regard to established mail ets. It would be very difficult for Government to circulate the information about Bombay prices in every small or large village growing cotton. Even if this were done, in the absence of markets, the cultivators must needs sell to the dealers in their own villages at low rates would therefore be reting in the best interests of the roots by dividing all cotton villages in groups and establishing in all ets in a central situation for every group, and the cultivators should then be compelled to bring their erop for sale in such markets only. In our market, no ready lapas comes for sale, only the dealers bring it from the villages and cain a large profit by sale to buyers. The poor cultivator gets very little for his goods, the hous share going to the middlemen. It is therefore essential for the ultimate good of the 13 ots that markets should be established and that cultivators should be compelled to resort to such markets only where information about Bombay prices should be published by Government. In this way they will get the proper value for their crops. A large number of cultivators live from hand to way they will get the proper value for their crops. A large number of cultivators live from hand to mouth, and they are compelled to make forward sales of a portion of their crops, before even it is sown, at very low prices with a view to provide ways and means for the purchase of creds Government must try to help them here by the provision of freilities for obtaining cheap credit

Ahmedabad -The cultivators are less hable to be deceived if they get some information about Bombay We think, Government should post notices at convenient centres, so that all cultivators can come and In our markets, the proportion of cultivators' own casts to the total arrivals is hardly even two The cultivator usually sells his crop four months pievious to its arrival in the market, unnas in the rupee because those who are in peninious eigenmentances must have money to provide for their agricultural expenses, and this he manages to get he selling his crop forward on the day that he commences his sowing operations In these en es the cultivator hardly obtains a half of the intrinsic value of his produce The wealther type of cultivators has no difficulty in getting information about Bombay prices and they are well able to talle care of themselves It is the poor and small cultivators who suffer most from ignorance and poverty, and Government should do what they can to protect them If the State giants loans to these men at a reasonable or and soles at the time of sowing operations, they will not be under the necessity of maling precipitate forward soles and would obtain the proper price for their crops during the season. Government do not stand any serious chances of loss, as the cultivator will always be in aposition to discharge his habilities in full at hartesting time no sooner he sells his I apas

SIT BAZONJI DADABHOY MEHTA

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ENCLOSURE (u) to ANNEXURE I

Translation of letter, duted the 26th January 1917, from our Combatore (Madras Presidency) Agents

We note our reply to your letter, dated the 22nd Decomber, in connexion with Government's proposal to creatate telegrams of Bombay cotton prices among cultivators has not reached you. We again give below our views on the subject. We think there is some exaggeration in the information received by the Government that the cultivators do not got proper value for their cotton. In the villages on this sade, the cultivators themselves bring a give teleproportion of thoir produce for sale, and, owing to keen competition among merchants, they at once come to know the trend of the markot. Only a small proportion is bought by petty dealers in the fields, but here again the cultivators do not get very low rates as is supposed. There is compettion among merchants everywhere and consequently dealers at times make profit or loss according to the tendency of the market. The dealings of these middlemon afford some convenience to the cultivators. In our opinion, the chief cruse of poverty of the peasant class is the light revenue tax, and it is necessary to make a reduction therein. Again, this tax is collected every six months at present. We think it would be better if this is done quartedly. Interest is another reason for their poor condition. Not only have the cultivators to pay a immossly high rate of interest on loans received from money lenders but they are also at times compelled by the latter to guarantee the sale of their produce to them at low rates. It is therefore essential to establish co operative credit societies at almost all places. The total crop of Cambodia cotton is about 50,000 bales in Combutore and Triuppur. A bulk of this is sold by cultivators themselves to merchants, only 15,000—20,000 bales being purchased by dealers. There is no cotton market at any of the places on this side. Agents of Bombay cotton mills therefore make their purchases direct from cultivators in fields.

Annelure II

Liver No. 19, divel Nagpus, the 3rd July 1917, from Sir Baronji Mehta to Mr. G. Fundlay Shuras, Director of Statistics

Many thinks for your demi official No. 2068 of 30th ultimo. A supplementary classification of the Ward forcerst into trade descriptions will, I am suic, be welcomed by the Trade, as enhancing the ut lity of these returns. I would suggest that the comprehensive description of Comras and also of Bengals be sub-divided into the different districts, as the Bombay Cotton Trade Association do in their daily and weekly returns of arrivals, etc. This will bring your returns into a line with those of the Association is well. I enclose lieicy ith a newspaper cutting showing the classification as adopted by the Association. You will, no doubt, also be consulting that body in the matter.

ENCLOSURE TO ANNEXUPE II

Receipts of virious growths of extent at Bombay to date compact with the corresponding periods in the previous season

| 4 h | , |) | | |
|---|--|--|---|--|
| Growths | Total for the week | TOTAL TO DATE (IN LALLS) SIVOE SELECTED BER 1ST | | |
| | July 1917 | 1916 | 1915 | |
| | Bales | Biles | Bales | |
| Khandesh Central India Barseo and Nugger Berar Central Provinces | 718 8,621 110 3,565 | 287,388 167,405 115,614 305 102 91,532 | 359,703 229,110 247,539 684,73 182,409 | |
| TOTAL DOMARS | 13,014 | 1,057,311 | 1,703,614 | |
| - | | | | |
| Dhellera Broach Compts and Dharwar Westerns Northerns Bengals (N W Provinces - { | 8,232 1,725 11,757 6,078 446 8,218 12,388 514 2 304 | 387,017 302,272 134,135 75,741 274,388 167,191 311,987 19,145 264 23,877 66 463 10,861 | 101,635 261,858 158,875 127,759 313,086 91,79, 181,350 26,599 525 33,267 | |
| lorat | 62,708 | 2,761,783 | 3,006,498 | |

SIT BAZONJI DADABHOL MLIIIA

[Continued

ANNLYUIL III

Pranslation of our Agents observations regarding publication of collon forwards, etc., dated Nagpar, the 3rd November 1917

The forceasts appruing in the Cential Provinces and Beru serve no useful purpose so far as the business community is concerned for the following leasons -

- 1 The force ests appear very late, which if it were otherwise would be very helpful to the devices in arriving at thon conclusions
- 2 As compared with the American forecast, ours is deficient in the matter of correct estimates. The recur rey of the American force ist is far aherd of the local force ist, is will appear from a comprinting study of the two for the last year
- 3 The forecast is not fiech available to buyers as well is sellers. It would prove of greater use if
- 4 The force ist is published in Linghish only, but the major portion of the de ders being unacquianted with the English Lagguage, it does not upped to them. All the force ists ought to be printed in High on the required of the major portion. Hindi, or the vernacular of the proper district, and circulated broaderst so as to serve their

The same agaments apply to actions other than those of forceasts published by the Covernment is but meet that the Government introduce the above changes, if they expect any appreciable proportion of buyers and sellors to boncht by these publications

ANNLAURL IV List of ginning factories and presses owned by the Empress Mills at different places. Dated Nagpur, the ord November 1917

| Sciril No | lown | Province | No of gin- | Type of Line |
|--------------|-----------------------|-------------------|------------|-----------------------------------|
| 1 | 2 | 3 | 1 | 5 |
| 1 | Nagpui | Contral Provinces | 22 | Dobson & Single Knife Roller Gins |
| 2 | Wardha | Do , do | 12 | Do do |
| J | Hing nighat | Do do | 17 | Do do |
| 1 | Warora | Do do | 18 | Do do |
| 5 | Akola | Borar | 11 | Do do |
| 6 | Yeotmal (old factory) | Do { | 10 | Do do Do do |
| 7 | Yootmal (new factory) | Do | 11 | Do do |
| 8 | Pandharkawada | D ₀ | 12 | Platt's Single Macrity Gins |
| | | l l | 10 | Dobson and Roscoo's Gins |
| 9 | Umrı | Nizam's Tollitory | 12 | Dobson's Smele Knife Roller Gins |
| M D | 771 | } | 12 | Platt's Single Macarthy Cine |

N B —There is a press as well in each of the above factories, turning out bales of about 320-365 lbs

ANNEXURE V

Statement showing average dimensions and density of cotton bales pressed at Empress Mills factories, dated Nagpur, the 3rd November 1917

| · | | | | |
|---------------|-----------------------------|------------|----------|------------------------------|
| Places | Dimensions | Cubic feet | Weight | Density per cubio foot |
| 1 | 2 | J | 1 | 5 |
| Yeotmal | 48-3/4" × 19-1,2" × 24 1/4" | lo | 320,325 | 25,26 |
| Hingaughat | 45-1/1" > 19-1/2" < 23 3/1" | 12/13 | 320, 331 | 26/27 |
| Pandharkawada | 48- × 19-1/4" × 24 1/2" | 12/13 | 320/325 | 25/27 |
| Umri | 48-1/4" × 19-1/1" × 25 3/1" | 13/11 | J60/J65 | 27/28 |

Su Pazonii Dadabhoi Wehla

[Continued

ANNEXUEL VI

Statement showing total purchases of Jan and Bun Kap is by the Limp ess Mits, at different plus a during the season 1916-17, with the respective percentages of lint produced therefrom, after giving process Dated Nagpur, the 31st October 1917

| Places | | Jani pu | RCHASLS | BANI PURCHASES | | |
|----------------|---|-------------------------|--------------------|-------------------------|--------------------|-------|
| | | bhojas of 392 lbs | Lint percentage | Bhojas of 392 lbs | Lint percontage | |
| | 1 | | 2 | 3 | 1 | 5 |
| Nagpui | | 4 | 2,123 | 35 15 | | - |
| Umrcr | | ĺ | 1,291 | 36 11 | 1 | • |
| katol | | | 28 | 34 78 | | |
| Wardha | | | 2,194 | 31 77 | l Ì | } |
| Hinganshat | • | | 1,952 | 34 36 | 41 | 26 10 |
| Watera | | (| 1,847 | 34 69 | 1,336 | 26 97 |
| Leetmal | | | 8,474 | 34 75 | 5 | 27 05 |
| Pandharl awada | | | 5,397 | 35 17 | 623 | 24 99 |
| Al ola | | | 136 | 31 12 | 1,497 | 34 76 |
| Hingeli | - | ļ | 1,301 | 33 35 | | } |
| Umri | • | | | } | 3,878 | 29 92 |
| Parbham | | , | | | 246 | 30 36 |
| Bhensa | | | | | 1,612 | } |
| Hubh | | | | | 3,173 | 28 22 |
| Jaora | | | 2,015 | 20 04 | } | |
| Wadhwan | | | | } | 162 | 34 75 |
| Ahmedabad | | | | } | 575 | |
| Navsarı | | | | | 1,099 | 32 08 |
| Mirpurkhas | | | 680 | 35 50 | | |
| Ly allpur | | 1 | • | | 1,520 | 32 43 |
| Combatere | | | | - | 148 | 32 20 |
| | | TOTAL | 27,741 | | 15,027 | |

We also use Egyptian eotton for fine counts and consume about 250 bhojas (of 392 lbs each) per year

Annexure VII

Extract from Sir Baronji Dadabhoy Mehta's written evidence given before the Indian Industrial Commission in October 1916

Though the long staple cotton can be imported, it would necessaries the development of the Indian cotton industry a good deal, if it is successfully grown in large quantities in India. The best indigenous long staple cetten was once the famous Hing nights, the whitest, element and strongest staple in the world, but unfor tunately owing to its poor yield per are it has all but died out. Many exotics have been tried by the Agricultural Departments all over India. Some of these have given given promise of success, but in almost every case the results have been disappointing due in a large measure to the cultivators and dealers not under standing their ultimate interests and, with a view to present gains, mixing the long staple with the short staple which is a comparatively abundant yielder. I think Government should devote their attention by every means in their power to increase the yield of the indigenous long staple or bans, as the exotics scene to deteriorate on account of adulteration, combined no doubt with climatic influences. The average yield of hind per acre in India is not even half that in America, and that of long staple considerably less. Presistent attempts in the direction of intensive cultivation, especially in connexion with the long staple variety, are necessary towards discovering such chemicals or other artificial fortilisers as are best suited to the Indian soil and climatic conditions. A few American expert agriculturists may also be employed as an experimental measure towards this ond. In several districts the ramy season being of short duration, the cotton plants do not get sufficient moisture for the crops to be matured, and irrigation, in such ease, would help greatly the increase of yield, especially of long staple cotton.

[Continued

Sir Bazonar Dadabnoa Mihia

The local Agricultural Department is doing much useful work in this direction, but it is a fact that it has almost been obliged to give no experiments with the long staple and devote itself more and more towards encouraging the shorter staple, which is such an abundant yielder. The Department is quite justified so long as the cultivator obtains a compactively more remainerative return for the shorter staple on his farm, but I do not think we should despur and give up faither timbs with fertilisers of different I inde and with ring i tion, where possible, towards improving the yield of the long taple. Lieu if there is failure in one province there are no doubt other parts of India more suitable for growing long stable cotton, and the yield there mi, lit bo capable of great expansion under the right kind of fertilisers or may ition of both

It may be montioued in passing that, if the Agricultural Departments in all parts of India, is in the c Provinces, looking to the immediate interests of the cultivators, on our ged the growth of the short staple, as it cortainly would prove a more abundant vielder under similar errormst ince other the long daple, a time must come when the price of the short styple with fall in relation to the longer one and the former possibly

become a drug in the market. It may then take years to revert to the long staple.

If even some approach to the American yield is practicable in India, the problem of the long staple indigenous cotton would be solved, the crop would be enormously in reused, and thus a powerful elimitus would be imported to the development of the Indian cotton industry, benefiting grover spinners and exporter able The demand on cotton crops throughout the world is continuou by outgrowing the supply, and American cotton prices even during the present wir crisis linve soured to beight; which were only reached during the Civil Har It is even fevred that in a short time America may utilize the whole of its crop for its own manufacture, and Lancashire will have to look for its in material elsewhere. It is therefore imperative for the Covernment of India and even the Imperial Government to leave no stone interned in exploiting the possibilities of the

ANNEXULE VIII

Statement showing results of treats of different growths of long tapes exton taken at the Linguest Mall, from 1912 10 1017

| • | | | - |
|-------------|---------------------------------|----------|---|
| Senal No | Bini cotton | tenano 1 | Pracer |
| 1 | d M | | |
| | | lle | an yearda umba madayin dabada ya dabada ya mada aha aha aha aha aha aha aha aha aha |
| 1 | Umrı | 67 |) |
| 2 | Dharmab id | 62 | |
| ક | Navsarı . | 62 | |
| 4 | Hublı | 61 | |
| 5 | Lyallpur, Sind (American ecods) | 00• | Average count spun— 203 Twist |
| 6 | Pandharkawada | 57 | |
| 7 | Warora . | 67 | |
| 8 | Combatoro | 53 | } |
| i | | 1 } | |

^{*} This is the result of trials of the 1916 17 crops. We had received this variety in 1915 16 also, but it was found a bit weak then

ANNIAULI IX

Statement showing results of trials of different growths of Jarveotton tal in at the Empress Will from 1911 to 1917

| Serial No | Jan cotton | Averago tension | RLMARTS |
|--------------|------------|--------------------|------------------------------|
| 1 | 2 | j | 4 |
| | • | lbs | \ |
| 1 | Warora | 59 | |
| 2 | Hinganghat | 59 | |
| 3 | Ycotmal | 54 | |
| 4 | Umrer | 51 | Averago count spun-12s trust |
| 5 | Wardha | 52 | |
| 6 | Nagpur | 1 | |
| 7 | Akola . | 50 45 |) |

[Co ntir ucd

ANNEXURE X

Statement'showing tests of yarn produed at the Empress Mills from Egyptian and Uganda cotton

| To ₁ 3 m ade 1n | Counts | Tension of Fg3 ptinn eotton | Tension of Uganda eotton | Turns per meh |
|----------------------------|--------|-----------------------------------|--------------------------------|---------------------|
| 1 | 2 | 3 | 4 | 5 |
| | Twist | lbs | lbe | |
| July 1916 | 50 | 32 | 31 | 31 68 |
| Do | 40 | 41 | 40 | 25 20 |

ANNEYURE XI

Statement showing average tension, etc., of 20s yarn produced at the Empress Mills from American and Indian cotton

| | Actual count | Tension | Twist wheel | Turns per |
|---|-----------------|---------|----------------|-----------|
| 1 | 2 | 3 | 4 | 5 |
| American Colton | | | | |
| Middling | 19 93 | 64 87 | 40 | 187 |
| Indian Cotton | 1 | | | |
| 20s mixing consisting of Warora, Navsarı and Parbham Banı | 19 96 | 56 79 | 38 | 19 56 |

ANNEYURE All

Copy of letter No 2091, dated Nagpur, the 20th October 1916, from Sir Bazonn D Mehta to the Director of Agriculture, His Highness the Nizam's Generament, Hyderabad (Deccan)

I beg to acknowledge receipt of your favour No 4 of 12th instant and than 3 ou for all the information you give about the arrivals of pure gaoram at Jalna and Paibham I am asking our agents at Umri to male arrangements for purchases there, and should they or we require any further particulars hereafter we shall write to you

Our experience with pure staple such as we are buying at Umri, Newga and Bhensa is that it is quite about the strongest to be found anywhere in India. We used to buy at Publiani and Nander some years ago, but have eeased altogether owing to the largely adulterated cottons which arrive in these markets. I hope with the vigorous efforts your Department is now putting forth, you will soon succeed in stamping out the short staple altogether from His Highness' Dominions.

May I in this connexion suggest that your Department might also impress on the oultivators the necessity of careful picling so as to channate as much of dirt, dust, leaf, etc., as possible from the Lapas? Goarant, as I have said above, is the strongest, at the same time there must be very few varieties of Indian cottons of which even the best types are so full of dirt, dust, leaf and other foreign matter. The blow room loss comes to something like fifteen per cent against six to eight per cent in fine Central Provinces or Guarat or American fully good midding. Such heavy admixtures of foreign matter, which cannot all be chiminated by even the best eleming machinery, detract greatly from the value of these high grade cottons and hence they do not command the value commensurate with the intrinsic worth of the staple. If the staple cottons like those of Umri and Bhensa are but reasonably clean they might stand without a competitor in India and command the topmost prices, as Hinganghat did some time ago

ANNEXURE XIII

Copy of letter No 1602, dated Nagpur, the 8th December 1912, from Sir Bazonji D Mehta, to the Deputy Com missioner, Nagpur

With reference to your endorsement No 2710 of 28th ultimo, necompanying papers on the subject of cotton growing in India (herewith returned), I submit the following remarks, though the subject seems to

lave been adequately dealt with in the letter of the Government of India

Damping of Colion —This is openly done by the press owners at the desire of their customers, who are both sellers and exporters

The buyers are also quite aware of the fact. It is for the latter to reject such damped cotton, but they do not the renders the fibre softer in feel and longer It is well known that in dry weather, the fibre gets coar or and shorter it is also harder to press, and the second advantage consists in its not requiring excessive pressure in

Sir Bayonji Dadaphol Mehta

[Continued]

The fibre will only absorb a certain percentage of moisture and no more, and any excessive damping will only stain the fibre. Besides in the dry climate, it does not take long to exportate a good damping will only stain the fibre. Besides in the dry climate, it does not take long to exportate a good quantity of the moisture. I do not mean to say that the practice is good. We ourselves do not adopt it at quantity of the moisture. But it is one with which Government need not interfere. The trade should be strong our own presses But it is one with which Government need not interfere

our own presses. But it is one with which Government need not interier. The trude should no strong enough to stop it, if it had any objection. Evidently it has not Additional European agricultural staff—I think that the time has come when Indian graduates should be taken up as apprentices on salaries commencing with Rs 50 a month under the existing European staff say two or three under each Deputy Director and thoroughly trained up in the agricultural line. The cost to Government would thus in time be reduced and efficient supervision attrined. The agricultural schools as the respect of the contract at present organized attract students, who could only be employed as Inspectors or Superintendents of Farms, but could serreely unitate experiments or suggest other methods, or study them as elsewhere practised-It would be best to devise means to attract graduates, who have taken degrees in agriculture as of the Bombay University, and further, some of them might be made to specialise mainly in cotton, devoting their whole time to studying and experimenting with a view to the introduction of long staple varieties, improvement in

methods of cultivation, etc

Statistical returns—These as now adopted by our Agricultural Department, if adopted everywhere else, should give as much reliable information as possible to the trade. Instead of fortugative returns, weekly ones would be preferable, if they do not entail too much trouble or expense.

Improved staple cotton —Our Agricultural Department has done much towards the attainment of this eet. The cultivation of burn cotton has been successful to a degree but unfortunately lately it has been found to be deteriorating in strength, while the cultivators are not eareful in keeping it elean or quite separate Cambodia cotton is really good, and if its cultivation be encouraged wherever the soil from inferior growths is suitable and irrigation available, it will certainly benefit both the cultivators and the cotton industry In the matter of the American cotton grown in Sind, it is unfortunate that the cultivation is not errefully done and consequently the quality is neither uniform nor reliable and there being no central market, it is almost impossible for purchasers to offer fair prices. The proposed buying agencies will probably degen it is almost impossible for purchasers to offer fair prices

nerate into monopolies, which might not be fair to the cultivators.

Mixing of collon —This question has been often discussed with regard to legislative action being tal en by Government even after the withdrawal of the Cotton Frauds Act by the Bombay Government, but it has been rightly dropped as impracticable If any steps can be tal en by Executive Officers to check the frauds, they should be welcome indeed. But I fear that they would be taken as unnecessary interference with the

trade

ANNIXURE XIV

Copy of letter No 5028, dated Nagpur, the 10th May 1917, from Sir Bazonji D. Mehla, to Messrs. Tata. Sons. & Co , Mills Department, Bombay

With reference to your fayour of 5th instant, I beg to enclose with this a report from our Lyallpin agents in connection with Professor Roberts' enquiries Some of the suggestions made by them are birdly practical ones, but the report will, no doubt, interest the Lyallpur authorities in regard to what is being thought about the present urrangements by people on the spot, who have some considerable experience in the cetton business in other Provinces

I regret we have no direct personal experience of the conditions prevailing in Lyallpin except what is ged through these agents. Our connexion there is of very recent growth. It seems to us, the principal derived through these agents desideratum is the establishment of central cotton mailets in the principal cotton centres in the Colony Such markets will attract a large number of buyers and ginners in course of time and owing to keen competition among them the cultivators are likely to get the best value for their money. These mail ets will of a certainty tend to minimise all other abuses as well, as is the universal experience in the Central Provinces and other large cotton centics where they live been established

We do not think beensing of factories with a view to control the qualities, mixing, etc., will serve am useful purpose Government control can only be exercised through petty officials, which will give rise to such other abuses as will render the remedy worse than the disease. We believe this was amply proved by experience in regard to the old Cotton Frauds Act in the Bonibay Presidence, which had to be rejeated soon

after ennetment

It would be desirable if standard weights passed by Government of other Municipal bodies are alone

permitted to be used in all cotton transactions

It is also emmently desirable that the weights and measures used in the cotton trade are standardised all over India The Central Provinces Government has talen the first step in this direction by prohibiting the various weights provalent in the different mail ets in these Provinces and prescribing a uniform standard assimilated to that of Bombay. This standard has been firmly established without the slightest little in less than a year and has proved a blessing to cultivators as well as all large merchants, who have to make their calculations on the basis of the Bombay parity. In fact, its only opponents were people who used to trade on the ignorance of the ryots as to the intrinsic value of their produce owing to the benildering variety of standards of weights at different places. The Punjub Government will therefore be talling a step in the right direction and benefiting the agriculturists to no small extent if it follows the Central Provinces m establishing central cotton markets and prescribing the Bombay or the Central Provinces standard weights only for use in connection with all cotton transactions

FINITIONE TO ANNIVURE XIV

Translation of letter from our Lyallpur agents in connection with the engineers from the Professor of Agriculture, Punjab

We have received copy of letter from the Professor of Agriculture, Punjah, in connexion with the proposed reforms in the system of ginning factories, etc in the Finjab, and give below our views on the various poin's, as requested -

(1) Cotten seeds are sold on this side by merchants under the name "big" (i.e., seeds of good quality, fit for the purposes of cultivation) They pass off seeds of inferior quality also under such a misnomer with a view to get higher pinces. This fraudulent practice should be prohibited, as

SIT BAZONII DADABHOL MEHTA

[Continued]

the quality of cotton suffers considerably in consequence of such mixed seeds being used for cultivation Government would be well advised to make some rules so as to permit of seeds being sold for cultivation only after inspection by a Government official, who should observe the following points in passing such seeds for sale -

(a) The seeds should be quite tipe, as otherwise the erop turns out very weak in strength

- (b) All the seeds should be of good staple American cotton
 (c) Seeds of good quality only should be permitted to be sold so that the percentage of lint may be high
- (2) Government use up their own seeds and are particular about the quality of seeds only. In our opinion, they should pry greater attention to the quality of cotton.
 (3) The picking of lapas is not made with care and needs attention. The lapas is full of leaves, which
- depreciates its value to no little extent Again, the cultivators store their lapas in a pressed condition. The presence of levies detriets from the quality of the lapas, and dampness or moisture eruses the leves to turn black and thus the quabty is spoiled all the more
- (4) The cultivators mix up the crop of last picking with laps of good quality, which should be pro-hibited. It is necessary to keep the last picking quite separate as the staple thereof is generally very weak, and when such inferior quality is mixed up with good lapas, the latter suffers as well In fact, the evil is cumulative when seeds of such mixed qualities are used for sowing the new erop and the result is steady deterioration from year to year

(5) Cotton marl ets should be established at all important centres and sales of lapas effected in these markets only. There being none in Lyallpur, the cultivators take their earts wherever they

(6) The establishment of markets will be beneficial to sellers and purchasers take in that they will all meet together at one place The markets will grow in importance in course of time and attract a larger number of dealers. The cultivators will benefit particularly, as they are likely to get higher prices for their produce owing to competition among purchasers. Markets of the type

existing in Al ola and other centres in the Central Provinces and Berar should be established in the Punjab This is probably the most urgent reform necessary

(7) The system of weighing lapas on this side is not as it should be and needs to be improved. There should be some such arrangements as detailed below

(a) Scalesmen for weighing lapas should be appointed by sellers and charges for weighments borne by buyers, so that in ease the scalesman passes off a larger quantity fraudulently he can be dismissed by sellers and likewise if his scales show less than the correct weights, the charges for weighment will not be paid to him by buyers Being thus under the dual control of both parties, he is hi elv to do his work honestly and carefully

(b) Scales and weights should be passed by the Municipalities at a nominal fee of Rs 5 per annum, if necessary, and inspection thereof made every month by municipal officials. Such a system

will inspire confidence in dealers as regards their accuracy

(8) Some dealers have their lapas passed through an opener, before ginning it and this process renders the staple somewhat shorter The opening, however, is advantageous in some respects as detailed below

(a) The Lapas is elevred of leaves, etc., and it looks whiter

(b) On this side the Lapas is covered with a good deal of earth and this is removed by the opener

(c) The opened Lapas gives greater outturn of lint

(d) If lapas giving out less than 321 per cent of but is ginned without being passed through the opener, a fair quantity of seed cotton passes off along with the seeds through the grids, and eauses a great loss

(c) The opener should be provided with such a device that during the process of opening the Lapas is thoroughly elemed without the stiple being affected and seed cotton so flattened out as not to permit of its passing through the grids in any case

- (9) Sellers must part cularly see that one type of cotton is not mixed up with another and each type is serupulously kept separate value of the latter considerably The mixing of inferior quality with good lapas lowers the
- (10) Hand ginned cotton is mixed up with machine ginued This should be stopped
- (11) Some dealers moisten the eotton and then bale it up This should also be prohibited, as not only does the moisture turn the leaves in cotton black but engenders heat in the pressed cotton, and weakens the stuple

(12) Factory labour in the Punjab is not skilled, as will be seen from the following -

- (a) The gunor does not feed the gin earefully but throws lapas therein at random, with the result that the latter gets mixed up with cotton
- (b) Coolies earrying lapas on to the gin platform are also equally eareless and a lot of lapas is allowed to be dropped all along the way from the lapas stack up to the platform handled in the same way
- (c) Gin fitters too are very indifferent and do not pay any attention to the proper working of the gins of the prevention of damage to the goods. It is therefore absolutely essential to improve this class of labour Ordinarily, the production of lint per gin per hour is 40 lbs, but in the Pinjab it is barely 24 lbs
- (13) Indian merchants are not a powerful combination and so, whonever export firms stop purchases for a few days, there is a sharp decline in prices Tho Government should not therefore be very barsh towards the merchants as such a policy is calculated to prejudicially affect the trade
- (14) Government insists on the weighinent of all auctioned lapas in a day, which causes great loss to dealers. About 5,000—8,000 mainds are auctioned it a time and such a quantity cannot in any circumstances be weighed in a single day. Some change in the rules in this direction is imperative A buyer should not be compelled to weigh and take over more than 2,000 maunds on any single day

- (15) Cotton ginning in the Punjab dates from about 1885. The first ginning factory was put up in Kasur in that year. And yet not one of the dealers knows anything about the staple at all Lint percentage seems to be their sole criterion of value.
- (16) The lapas auctioned by Government does not give the same lint percentage. The latter ranges from 30 to 32½ per cent. Government should arrange to sell lots of different percentages separately. The outturn of good staple kapas in the Punjab is generally low, but the American cotton in Sind, in spite of having a good staple, yields a high outturn. In the case of the Punjab kapas in the greater is the percentage of lint and
- (17) The auctioned cotton is delivered by Government at any place in accordance with the buyer's wishes, but they should also arrange for a quick supply of wagons for its transport, as these can be obtained very spasmodically at times and buyers are put to heavy losses and risks in consequence
- (18) A heavy tax should be levied on those factories which do not work satisfactorily. This question should, however, be decided after careful consideration, lest the charge may prove unnecessarily harsh and even fatal to the existence or expansion of the ginning and pressing industries

ANNEXURF XV

Statement showing cost per bhoja of 345 lbs at Nagpur, of American and Egyptian cotton purchased by the Empress Mills, during the years 1904—1912, with the relative cost per bhoja of Bani and Iari cotton as per prices ruling at the time in Waiora, Pandharlawada and Nagpur markets Dated Nagpur, the 3rd November 1917

| Date | American | Banı | Jarı | Date | Egyptian |
|---|---|--------------------------|-------------------------------|--|---|
| | ,Rs | Rs | Rs | | Rs |
| 12th July 1904 3rd August 1904 15th September 1904 26th November 1904 20th December 1904 30th December 1904 6th January 1905 25th January 1905 | 150 137 136 124 110 105 08 | 154 | 103 | 29th April 1904 25th October 1901 | 207 176 |
| 27th February 1905 11th March 1905 27th May 1905 1st September 1905 19th September 1905 23rd September 1905 | 108 110 135 144 137 133 | 100 | 68 | 16th May 1905 | 178 |
| 17th October 1905 12th January 1906 16th February 1906 6th May 1906 17th June 1906 28th July 1906 | 131 150 145 150 148 150 | 140 140 130 | 95 88 83 | 13th March 1906 22nd October 1906 | 216 207 |
| 31st August 1906 10th August 1906 20th August 1906 20th October 1906 8th December 1906 14th February 1907 14th March 1907 4th April 1917 9th September 1907 18th September 1907 1st October 1907 8th October 1907 12th October 1907 17th October 1907 | 128 142 128 182 198 151 153 151 180 163 160 157 158 158 153 152 | 129 126 129 130 | 91 84 90 87 | 12th March 1907 14th August 1007 25th November 1907 19th March 1908 3rd April 1908 11th April 1908 20th April 1908 6th May 1908 | 255 240 220 175 173 170 167 |
| 29th October 1907 12th November 1907 12th November 1007 27th February 1909 18th March 1909 4th October 1911 17th October 1911 27th October 1911 | 150 131 150 130 126 136 130 | 115 127 124 | 92 82 89 | 13th August 1909 2nd December 1909 12th July 1910 January 1911 | 210 215 261 244 |
| 7th November 1911 24th November 1011 13th December 1011 6th February 1912 26th November 1912 | 130 143 133 132 135 168 | 127 118 134 150 | 100 98 96 110 137 | 6th June 1911 8th November 1911 9th December 1911 28th March 1912 10th June 1912 27th June 1912 5th October 1912 | 241 197 101 203 226 226 209 |

Sir Bazonji Dadabhol Mlhta

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SIR BAZONJI DADABHOY MEHTA, KT, called and examined

4083 (President) My experience of cotton goes back for 41 years. Our two varieties of cotton are the short jari and the long staple bani. Then, of course, there is buri but that is disappearing now. Upland Georgian was also tried by the Agricultural Department but it was found to deteriorate after two or three years. I think it had to he given up. Bani was the indigenous cotton grown on the Hinganghat side. The staple of bani is about \$\frac{1}{2}\text{ths to } \frac{1}{2}\text{ths to } \frac{1}{2}\text{ths

4084 We have eight ginning factories. The ginning factories at Nagpur, Wardba and Hinganghat deal only in short staple. The one at Hinganghat used to deal with long staple. At Warora we have a factory and there also the short staple has got in. We have also established a factory at Pandharwada. Long staple used to be grown there but here also it is fast disappearing. The factory at Akola deals with a mixture of long and short staple. We have also factories at Yeotmal and Umri. We buy some cotton at Hingoli also though we have no ginning factory there.

4085 We have to go to Navsari, Hubli and Dharwa for long staple cotton. We buy very little long staple cotton in these provinces. Chanda jari is a long staple cotton. We buy some of that The ginning percentage of bani is only 26 per cent. That is the difficulty. It would be an advantage if the ginning percentage was greater. I think that it would be worth while in view of the consumption of long staple cotton in these provinces to try to produce it locally and that experiments should be made by the Agricultural Department in that direction. I am fairly well acquiainted with the Agricultural Department in this province and have followed its development. As I have said, they have been trying to get long staple cotton but it soon deteriorated. The Upland Georgian experiment was started long ago even hefore the Agricultural Department started experiments. But that has gone out too. It might be worth while to have picked officers to try further experiments. The Agricultural Department has done its best but there may be something left yet one cannot say. Still it is a line of experiment which might be followed up. If necessary there might be an increase of staff on that account.

4086 The Government forecast serves a useful purpose. The Central Provinces forecast is better than the Government of India one. I do not see how it can be improved very much unless something like the Aucrie in system yere adopted. The American system is very claborate and I do not think it can be carried out here. I think the dates of publication might be improved. I think the forecasts should be published amonth earlier hecause the second forecast is now published just about the time cotton begins to come in I am afraid, however, that if the forecast same out a month earlier they might not be so accurate. A monthly forecast from July to February would be helpful to the trade

4087 The giving and press returns published by the Government of India are of no use. They take such a long time to come out. I only received the copy for August to day. Even then it is not complete and does not include the returns from Native States. The Central Provinces returns are much more prompt. The Director of Agriculture posts them to me. Even the Bombay returns do not seem to be correct. The submission of the returns should be made compulsory by legislation and the provincial returns should be telegraphed to the Director of Statistics, so as to ensure more prompt publication.

4088 I do not think that the publication of Bombay prices at up country markets would be of any use to the cultivator. The differences in the growths of cotton in the grades, in the cost of transport to market, and in ginning and pressing charges would make a difference in the calculations which the cultivator would

have to work out

4089 (Mr ll'adia) Dimping is very much resorted to in this part of the country. I do not see how you can stop it it is the business of the trade. The objection to legislative better in that the inspectors and supervisors would be libble to temptation and might go wrong. Experts sometimes make mistakes in regard to the mixing of different varieties of cotton and I do not therefore think that the inspectors would be able to find them out. The mixing of cotton certainly leads to mixed seed being issued to the cultivators and to the deterioration of the crop. That has been the ever with Upland Georgian and with Cambodia. To keep types pure I would look to the field. The thing to do is to supply pure seed to the cultivator and to see that it is used instead of living inspectors for checking mixture, adulteration or damping. What we ought to do is to see that pure seed is given to the oultivator and that the fields are witched. I quite realise that this is an enormous task and of course it cannot all be done at once. If you go on giving pure seed to the cultivators year after year and show them the advantage of using it, the cultivation of pure varieties of cotton will be greatly extended. It is not necessary that Government should look to every field but they should exercise a sort of general supervision. My idea is that Government should look to every field but they should exercise a sort of general supervision. My idea is that Government should look to ever the whole business of seed distribution. That is the only remedy in my opinion. I quito understand that it would mean a tremendous increase in the staff of the Agricultural Department, but I think it could he done gradually and that if the people understood the advantages they would derive from it, then perbaps such a high staff might not he wanted. Ginners should not be allowed to give back seed to cultivators. I have had some experience of Indan University Graduates who have done very well in all our departments. They have succeeded very well with its. I have

4000 The existence of ginning and pressing pools all over the districts only shows that there are more gins and presses than are required. These pools are not in the interests of the cultivators. I do not see how legislative action could be taken against these pools. If pools could be aholished it would be a good thing. The profits which these pools make must come out of the pockets-of the cultivators because the buyers calculate what the charges will be and fix the prices they pay accordingly. Government could not very well fix the maximum prices to be charged for ginning and pressing. It is not the business of Government and I do not see how they could do it. Competition is the only way to bring about the

Sir Bazonji Dadabhoa Menta

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proper rates I de not think that you can very well fix the number of fretories, or the price they should

charge If this peeling business is stopped, competition must do everything else

4091 I have heard of Khandesh and roseum cotton being taken to Broach for admixture I have been very seriously thinking how adulter than hic this could be stopped but I have not been able to come to any condusion I do not think that you could stop the earnage of lapas from one place to another Amraoti lapas is at present coming to Nagpur as Nagpur cotton has a ligher piec than Amraoti In the same way, lapas goes from one district to another by rail as well as by road to got the namo of the place to which it is taken I do not see how you can stop this. They did try to do so in Berar some time ago but they failed

4092 (Mr Hodgkinson) The staple of Cambodia is one inch in length or slightly less. Lately we have found it mixed and slightly deterierated. This is the evil that goes on whenever there is a good cotton. It can be spin up to 40s weft. It will spin up to 32s warp. I have not had the strength tested. In the case of Cambodia, the blow room loss is about ten to twelve per cent. The card noom less would be a further four per cent so that the total loss would be sixteen per cent to spindle point. If Cambodia were saw ginned instead of roller ginned, it would certainly be cleaner but, in my opinion, the saw gins would cut the fibre. For spinning 32s to 40s weft, we use cotton that we get from the Nizam's territory which is called Umri. We also use the cottons that come from Dharmabad, Hubh, Dharwar and Navsari. Dharmabad is also in the

Nizam's State Umri cotton is better than Cambodia in strength

4093 (Mr Henderson) So far as we are concerned, the trade names of the cotton here in the Central Provinces are jari and bani. Roseum is another but generally we talk of the short staple as jari and the long staple as bani. The trade name is given by the Bombay people. The Agricultural Department has given the local trade names. The general trade name for the cotton grown in Berar is Comras. There are no trade names for bani, buri and Upland Geergian. Pure bani is still to be bought in the Nizam's Territory at Umri. That is not the only place but we get it in Hubli and Dharwar in the Southern Mahratta county. Navasari cotton is pure bani. What they call Surtice is really Surit cotton. It is quite pure. Deterioration has been most marked in Cambodia and Dharwar cotton. In the neighbourhood of Umri also there is a great deal of deterioration going on. The cotton that we are getting from Parbhani and other places is coming in mixed with short stuple and Mr. Kenny who is in charge of the Hyderabad Agricultural Department at Hyderabad is very analous to get nothing but bani produced there. Naviari has not deteriorated but Broach has and Broach is only a name now. We buy a large quantity of lapas at Naviari and so far we have not had any cause to complain. It is very clean and very white. The low ginning percentage of Akola jari mentioned in Annexure VI to my written evidence is due to nulling. Mixing is very general all over the place. I think the indigenous cotton of the bani type would be better for experimental work than American.

4094 I am not quite satisfied with Punjab American but it is quite a step in the right direction I would like something stronger and unmixed. Last season long and short staple cotton were mixed together and of course it was much cheaper. Our mills at Bombay and Ahmedabad bought it simply because it was cheaper. The reason why it was mixed was that the cultivators did not get sufficient seed. I could not say where the mixing took place. It must be the cultivators because they said they could not get seed. Our people purchased the lint only. I think American cotton would be still better if saw gins were not used as

they cut the fibre

4095 I am in favour of millewners ginning their own kapas. That is what we are doing. They would then know exactly the lind and quality of cetton that they were getting. It is a much easier thing to detect a mixture in kapas than in ginned cotton. I am generally in favour of a large extension of superier cottons specially in a new country like Sind and the Punjab, in fact all over India if you could get it. Of course, there is the difficulty of bridging over the gulf between the time when such cotton is produced in small quantities and the time when it is produced in commercial quantities. The buver can do nothing with a small quantity. I should be quite prepared if any experiments were made, to lend assistance by taking as small a quantity as 25 bales at a fair place. Even now, is it is, the difference in ginning percentage between long and short staple cotton is so great that unless the price of long staple cotton is about fifty per cent. Ingher than for the short staple cotton, it does not pay cultivator to grow long staple.

4096 I have suggested that a few American agriculturists should be employed as an experimental measure. Whether such an experiment will have greater advantages than the present system I cannot say. The Americans have greater experience and they might be able to suggest semething to improve the yield or in other directions. Then ginning percentage is very high and their yield is high. I suppose the Americans

eannot grow Egyptian cotton because of some soil difficulty

4097 (Mr Roberts) Standard weights have been introduced in this province for cotton markets and the system is working very well. I do not remember my agent reporting anything about this point so far as it concerned the Punjab but he has certainly suggested that weights should be standardised. This is an important measure which should be adopted throughout India. Our weights are exactly the Bombay weights. We have taken 28 lbs as equal to one mained and fourteen maineds are equal to a bhoja of 392 lbs. That is half of the Bombay Khandi and a bale is made up of 392 lbs. The weights were standardised by getting the principal men from the different cotton markets to agree and by asking the Municipalities to introduce standard weights. I should say that the weights should be uniform throughout a province. Of course it would be better to have uniform weights for all India but I think that might be difficult to introduce. Govern ment have had this question under their consideration for sometime but nothing has been done as yet. If a standard weight was adopted for all India, I suppose it ought to be the standard maind as the cultivator would understand it better.

4098 Sometimes the sellers complain that after the price has been fixed and the Lapis is taken to the ginning factory, the buyer finds fault with it. He says that the cotton is bad or is damped and he wants to cut down the price. In that case the seller takes it away if he is not satisfied. Sometimes, however, it would be too much trouble to re load the cart and he agrees to accept the price. Markets like those in the Central Provinces might be introduced in the Punjab. The weighbridge system is much mere satisfactory than the weighment in small bundles. The cotton markets here are simply places which are centrolled by the Municipal Committee. A committee of buyers is appointed by the Municipal Committee and they manage the business. The cotton markets have been established for a very leng time—twenty years or more. We find that they work quite satisfactorily. The only objectionable feature is as regards the brokers' commission. The Municipality fixes the rate of commission for the brokers and the buyers give the brokers a secret commission simply with a view to get more earts into the presses or gins. The rate fixed is four annas for a Lhand in Lapas. I believe some of the buyers pay twelve annas. That is really speaking illegal. The Market

SIT BAZONJI DADABHOL MEHTA

[Continued

Committee ought to stop it but has not been able to do so — The point is that the whole charge falls upon the seller whether the commission is given secretly or otherwise— I would advocate stricter enforcement of the rules to stop this practice

4090 When cotton is transported from one station to another, it is done in half pressed bales though some is sent in pressed bales. So it would be very difficult to mark cotton by the name of the station from which it comes and would be impossible in the case of loose cotton.

4100 I have had to go further and further afield for staple cotton. We have to go to the Punjab, to Southern India, to Hubh and Dharwar. We could pay better prices for long stapled cotton if we could get our cotton as near home as possible but it would not pay the cultivator if the ginning percentage was as low as that of bani. We have a ginning factory of our own at Umri but none at Dharmahad. We have a Marwari purchaser who acts under our instructions. Whenever we have to buy, our man goes himself. Wherever we have ginning factories, we gin our own cotton ourselves. Our work is mostly done by our own people

ANNEXURE I

Further note by Sir Bazonji Mehta

Damping of collon —Kapas after being picked is kept in damp pits to receive the moisture before being carted. In passing across rivers, the carts are at times purposely taken through water or are tilted, so as to receive some moisture. The lapas is exposed to dew falling during might. But with all this, the climate in these parts is so dry that in a few hours, the moisture is exaporated to a large extent. This cannot be checked but the buyer, if he feels the kapas damp, deducts a small percentage at the time of weighing it over. The ginners do not damp the kapas or lint. The presses do to any extent the owner of the cotton desires. If reasonably damped, the fibre looks longer and softer, and is easier to press. In the exceedingly dry climate in our part of the country, the fibre swells and looks short and coarse and is very difficult to press. If inerdinately watered, the cotton gets stained, discoloured and washened. This the buyer of bales can himself find out. If inspectors are appointed to supervise the presses, unless they have authority of some kind, they would be powerless to check the evil of too much damping. Besides, Government control can only be exercised through petty officials who will have to be invested with a daugerous amount of authority. Again dampness due to rains cannot be helped. I think, this is a matter which does not call for any legislative action on the part of the State. The remedy for excessive damping seems to me to be entirely with the buyer. He alone can stop it if he cares to

Mixing of Lapas and collon —This question has also often been discussed with regard to legislative action by the State, but here too the difficulties in regard to authority being invested with petty officials seems to me insuperable. The experience of the Bombiy Cotton Frauds Act of 1863, which had eventually to be repeated, does not seem encouraging in regard to the results of State intervention. It seed farms are organised and selected seed given out to cultivators at reasonable rates, there may be less chance of mixed seeds being utilised in the helds and reliably pure struns of cotton obtained. Government need not have all farms of their own. Private seeds farms or Co operative Unions of such under the supervision of Departmental officers may be encouraged. The local Agricultural Department is also doing much useful work in this direction. Beyond this, it should be left entirely to the trade to check the evils complained of Even if law is passed making mixings penal, it would have to be really very clustic. Even cotton from the same place but hand or miclune ginned, or first or last picking, me his no little difference in quality and their mixture will affect the quality to no little extent. The prevention of all such mixtures would even be a hardship to some extent and besides it would need such expert knowledge and such minute supervision as to involve almost certain failure if undertal en through State Agency. The trade in this matter may be left to look after its own interests. No amount of legislative action will, in my opinion, effectively prevent such mixtures, so long as people consider it worth while buying them

Export duty on collon —I cannot see my way to recommend an export duty even to provide funds in connexion with measures for the improvement of cotton cultivation or the preventing of adulterations. It must be remembered cotton is not a world monopoly for India like jute. An export duty, in normal times, will only result in lowering the price received by the poor agriculturist for his crop. It seems to me the few interested in the cotton manufacturing industry will benefit thereby at the expense of the large mass of cultivators. The burden ought not, in any case, to fall on those least able to bear it

Annexure II

Statement showing results of trials of cotton at the Empress mills, Nagpur

(i) FEBRUARY 1917

208 Twist.

Average counts 20:21

Blew reem

| | | | | less per cent | Louision |
|---------------------|---|---|---|---------------|----------|
| Umrı | - | • | • | 12 87 | 67 05 |
| Dharmabad | | | æ | 11 51 | 65 62 |
| Lyallpur (American) | | | | 12 08 | 57 83 |
| Hubh (Mungarı) | | | | 11 99 | 51 16 |
| | | | | 1 |) |

SIT BAZONJI DADABHOY MEHTA

[Continued

(11) APRIL 1917 20s Twist Average counts 20 01

| • | Blow room loss per cent | Tension |
|---------------------|----------------------------|---------|
| Umrı | 12 04 | 66 35 |
| Lyallpur (American) | 11 36 | 59 84 |
| Navsarı | 7 73 | 59 18 |
| Purbani | 14 26 | 59 16 |

(111) MAY 1917
20s Tuist
Average counts 20 01

| - | Blow room loss per cent | Tension |
|--------------------------------|----------------------------|---------|
| Navsarı | 7 13 | 65 43 |
| Hubla (Kumpta)* | 13 19 | 62 81 |
| Lyallpur (American) | 12 38 | 62 19 |
| Dharmabad (excoptionally weak) | 10 90 | 50 88 |

Annexure III

Letter from Sir Bazonji Dadabhoy Mehta, to Mr. W. Roberts, B. Sc., I. A. S., Professor of Agriculture, Punjab, Lyallpur, dated 31st March 1916

We have now completed our spinning tests of Lyalipur and Mirpurkhas American cotton purchased at the Government auctions and also of the former as obtained from dealers. The results, I regret to say, are not quite satisfactory and neither of these is suited to a good strong 21s wrip as we had expected I think, this is due to some admixture of short fibre which, however small, militates considerably against the value of such otherwise high grade cottons. You will see from the results given below that ready American cotton obtained from dealers has fared worse than the kapas we purchased at auction probably because of the heavier admixture of short fibre or deshi in the former

We know from experience that the strongest indigenous staple cottons are to be found in the Nizam's Dominions (Hyderabad) and some of the neighbouring Berar districts. We have taken some trials of the American cottons against these under virtually identical conditions, and give below for your information a

summary of the results both in respect of blow room loss and average tension -

1

20s Twist

Exact count 20 01

Average of 80 wrappings

| | Blow room loss per cent | Tension lbs |
|--|----------------------------|-------------|
| Umrı (Hyderabad) | 10 90 | 67 32 |
| Lyallpur American (purchased from dealers) | 10 80 | 52 08 |

2.

20s Twist

Exact count 20 01

Average of 120 wrappings

| , | Blow room loss per cent | Tension lbs |
|--|----------------------------|-------------|
| Dharmabad | 11 15 | 69 99 |
| Umrı | 11 25 | 69 98 |
| Lyallpur American (purchased from dealers) | 11 64 | 59 60 |

SIT BAZONJI DADABHOY MEHTA

[Continued

3

20s Twist

Exact count 20 01

Average of 100 wrappings

| - | less per cent | Tensien lbs |
|--|---------------|-------------|
| Pandharkawada (Borar) | 7 89 | 70 51 |
| Nevga (Hyderabad) | 10 45 | 68 45 |
| Mirpurkhas American (purchased at auction) | 5 76 | 60 30 |
| Lyallpur American (purchased at auction) | 10 96 | 59 05 |

24s Twist

Exact count 24 11

Average of 120 wrappings

| | loss per cent | Tension lhs |
|--|---------------|-------------|
| Pandharkawada (Berar) | 7 89 | 51 91 |
| Novga (Hyderabad) | 10 45 | 50 68 |
| Lyallpnr American (purchased at auction) | 10 96 | 46 02 |
| Mirpurkhas American (purchased at auction) | 5 76 | 45 50 |

You will see, the Americans have turned out relatively much weaker than the best indigenous Hyderabad or Berars

I take this opportunity to tender to you my best thanks for the kind assistance which yourself and the officers of the Agricultural Department were so good as to render to our agent in connection with his purchases

ANNEXURF IV

Letter from Sir Bazonji Dadabhoy Mehta, to Mr. T. F. Main, B.Sc., Deputy Director of Agriculture, Sind, Mirpur Khas, dated 12th April 1916

My agent, Mr Bansidhur, has sent me a copy of your letter No 529, dated 20th February, to the

Director of Agneulture, Poona, which you kindly favoured him with, and I have perused it with interest.

The ten bales spared for him were duly received by us and I was much struck with the quality of the cotton, its fairly long stuple and its remarkable whiteness and purity. In actual trials, however, it has not outle come up to our expectations as we find it is not suited for a good strong 22s or 24s wrap. The results of our tests side by side with Lyallpur American and some of the best indigenous types we are using, are tabulated in a letter I have addressed to the Professor of Agriculture, Punjab, as per copy herewith onclosed which, I hope, will be of interest to you *

On eximining a large sample taken out of a bale rather minutely, I find that though most of the staple on extinining targe starple taken out of t bale rather minuterly, I find that though most of the staple is a fairly long one, it does contain some very small percentage of a shorter and what looks like a more or less different type of fibre—I send per separate post two small samples "A" and "B" taken out of the same bale for your inspection—"A" is the usual run of staple observable in this cotton, while "B" contains the smaller fibre which I refer to—The latter is certainly not deshi but it is shorter than, and somewhat different from the excellent type "A"—Of course, the cotton being the produce of your own farm, there can be no intentional admixture whatever and I do not know how the difference can be accounted for, but it does seem

Your cotton is saw ginned and is you are probably aware such types of gins are likely to cut the fibre, unless they are set most accurately I am unable to say whether this is the case in the cotton we have received for it is very difficult to detect broken fibre to any appreciable extent Perhips you have already

tried ordinary Platt's Gins and may not have found any difference

ANNEXURE V

Letter from Sir Bazonji Dadabhoy Mehta, to Mr W Roberts, B Sc , I A S , Professor of Agriculture, Lyallpur dated 28th April 1916

I am ohliged by your favour of 22nd instant Sind American was a remarkably clean cotton due, no doubt, to its heing saw ginned, but such gins, unless most accurately set, are likely to cut the fibre eotton seemed to me to be a particularly good one in staple, but here again there was some admixture of short fibre which lessens its value a good deal—I enclose herewith copy of a letter I addressed to the Deputy Director of Agriculture in regard to our trials with this cotton, as I think you will be interested in same SIr BAZONII DADABHON MEHTA

[Continued

As regards admixture of deshi or short staple I know it is a universal practice, all the same it is a most permierous one and should, if possible, be discouraged especially with exotic growths like American which the Agricultural Departments in some of the Provinces are so much it puns to introduce. I must explain that mixing of different types of cotton is a duly routine in the nulls but as a spinner I would much prefer to purchase reliable and uniform types of different grades and to mix them in the proportions best suited to my requirements. In this way I can make myself sure about their exact proportions in a particular mixing. To leave this work to the ryots at their sowing operations or to the middlemen at the giming factories almost always leads to fraud, as it is not easy to detect the proportions of long and short staple, especially when these are mixed at the gins. Again such a practice necessarily involves the mixing up of seeds which leads to a steady deterioration in the quality of the sneeceding crops till the whole degenerates into pure deshi. This is exactly what has happened in regard to local long staple cottons like Hinganghats once famous throughout the world, and I am afraid, it would be the same with Lyallpur, seeing the extent to which deshi already comes to be mixed therewith

I think the principal aim in our efforts to develop American cotton would be to supply the great need in India of long staple cottons for spinning good strong warps and wefts of medium counts lil c 24s, 30s and 40s. Even a small admixture of short fibre renders the cotton unsuited for such purposes and thus again the primary object of its introduction is frustrated.

With regard to our own purchases at Lyallpur, our man had strict instructions not to touch any but pure Americans only. He did his best in this direction, but the fact remains that the lots he purchased even at auctions contained some admixture. The large quantity of mixed cotton, which he bought was on behalf of one of the other mills managed by Messrs. Tata, Sons and Company

Assesure VI

Letter from Sir Baronji Dadabhoy Mehta, to F. Noyce, Tsq., I C.S., Secretary to the Indian Cotton Committee No. 28th, dated 14th November 1917

With reference to Professor Roberts' suggestion during my evidence yesterday, it did not occur to me at the time to say that the railways mark every prel age of every consignment of cotton or other goods with the initials of the despatching and receiving stations with also a progressive number of the consignment, for their own purposes of identification. These marks can, of course, be obliterated, or even the largeing changed, specially if it be the top part of a bale which is marked as is usually the case.

With reference to Mr Henderson's question regarding trade names of cotion, they are generally known by the names of places whence the cotton's marketed, as you will see from the cutting enclosed. There are a few exceptions, such as 'Compta,' which comes from Dharwar, Hubbi and places adjacent, and 'Cimbodias' from Southern India. "Bengals" is only a trade name for all cotton from the United Provinces, Rajputana, etc. The enclosed newspaper cutting gives the trade names in the Bombay Cotton Market.

Exclosurr

Bombay Cotton Exchange Co Quotations

Market Quotations for Ready and Forward Delivery Contracts as fixed by the Rate Committee of the exchange
(At 4 30 PM)

| | • | | | | |
|-----------------------------|-----------|--------------|------------|------|----------|
| Growths | Superfine | T ino | Fully good | Good | Delivery |
| Bengals M G | | | | į | |
| Bengals M G | 314 | 301 | 201 | | Ready |
| Soud Punjab M G | 319 | 309 | 299 | | Ready |
| Do | | | | | |
| Khandeish M G | | 355 | 325 | | Ready |
| Do | | | 1 | i | |
| Jalna M G G S | [| | 352 | | Ready |
| Barsee M G G S | | | 375 | | Rendy |
| Do | | | | | • |
| Nandid M G (Goed Staple) | | | 425 | | Ready |
| Akola Khamgaum Karanja M G | | 366 | 346 | | Ready |
| Comrawatce Descriptions M G | | 364 | 311 | | Ready |
| Dhamangam Poolgaum M G | | 369 | 351 | | Ready |
| Do | | | | į | . |
| Yeotmal M G | | 373 | 368 | 1 | Ready |
| Do | | | | | |
| 1 | | İ | 1 | (| |

Mr Sriram Surajmal

Bombay Cotton Exchange Co Quotations-contd

| Grewiths | Superfine | Fine | Fully good | Good | Delivory |
|-------------------------|-----------|------|------------|------|-----------------|
| Nagpore Kamptı M G | | 383 | 371 | | Ready |
| $\mathbf{D_0}$ | | | | | |
| Wardha Hinganghat M G | | 383 | 371 | | Ready |
| $\mathbf{D_0}$ | | | | | |
| Broach M G | 1 | 409 | 403 | | Ready |
| $\mathbf{D_0}$ | | | | | |
| Mathia M G | | 349 | 339 | ! | Ready |
| $\mathbf{D_0}$ | | ! | | 395 | 1 25 April 1917 |
| Bhagall oto Bijapur M G | | | | | |
| $\mathbf{D_0}$ | | | | | |
| Saw ginned Dharwar | | | | | |
| Do | | | | | |
| D ₀ | | | | | |
| Wadhwan M G | | 418 | 403 | | Ready |
| Do H G | | 408 | 393 | | Rendy |
| Westerns M G | | | | | |
| Do H G | | | | | |
| Compta M G | | | | j | |
| Do | |) | | | |
| Miraj M G | | | | | |
| Do | | 1 | | l | |

The Official Quotations of the Exchange are (unless otherwise stated) "Jaitha Terms," i c, inclusive of eight annus per bale of Muceadum allowance

M G—Machine ginned H G—Hand ginned G S—Good Staple

Mr. SRIRAM SURAJMAL, Chairman of the Akola Cotton Market Committee

EXAMINED AT AROLA ON NOVEMBER 16th, 1917

No written statement was submitted by this witness

(Translation)

4101 (Mr Wadia) In the market only five persons act, the buyer and seller, araiya or commission agent, broker and the weighman These are the five persons. It is not compulsory for every seller to engage an aratya If he requires one he should engage him, for which, according to our rules, he has to pay up to one per cent. He can pay less by mutual agreement but cannot pay more. If the seller takes the help of the commission agent the latter finds a buyer for the cotton and settles the rate. If he does not tale the help of the commission agent, he always has to do it for himself. The commission agent settles the rate and airinges delivery When delivery is mide, the commission agent collects the payment from the buyer and pays it over to the seller He must, according to the contract between him and the seller, pay the seller at oneo and collect from the buyer These are the functions of the aratya There are two other persons, the once and collect from the buyer These are the functions of the aratya There are two other persons, the brol er and the weighman The broker, according to the present rules, receives fees both from the buyer and the seller But here in Akola since the time the system has been in force, the broker receives fees from the buyer alone. In consequence, the broker looks much more to the interests of the buyer and the aratya to the interest of the seller Although it is not compulsory to engage a commission agent (aratya) till the sellers engage one because he watches their interests. If there is any difficulty about rates, the broker settles it. He is always present at the time of delivory. If there is any little is to the quality of the cotton or in regard to dampness, he settles it between the parties. These are the functions of the broker Formerly the rate of brokerage was three annas per bhoja of 280 lbs but since last year, it is four annas and six pies per bhoja of 392 lbs. So prietically it is tho same. Therefore the aratya is much more popular than the broker The brol ors are also popular because when outsiders come, they do not know what system prevails there and they have to take the help of the brokers as they do not know much about the place The duty of the weighman is simply to weigh the Lapas or the ginned cotton. He is paid by the seller

Mr BALWANT R GADGIL

14 paid two annus per I handi of 781 lbs of kapas or bhoja of 392 lbs of lint The cotton market belongs to Wo get one anna per cart of kapas and one anna per bhoja of lint and this goes to the Besides we receive Rs 50 from every aratya, Rs 5 from every weighman and Rs 20 from every broker

The money is spent on roads in the cotton market area, on lighting, darmans, etc., and the surplus at the end of the year goes to the Municipality

The land in which the market is situated belongs to Government, handed over free to the Cotton Market Committee

The land is given for use as a market and it will revert to Government if the market ceases to exist

102 The practice of damping cotton has now stopped altogether as far as Akola is concorned
4103 We do not publish the Bombay and Liverpool prices in the market. The publication of these
prices would not be of much help here. Here the commission agents or aratyas are all merchants and so
there is much competition in the market. There are several buyers and generally speaking the rates are known to the buyers and sellers, and are not secret, so publication of prices would not be of much use
4104 The rule is that no cotton should be sold within a mile of the market If any cotton is sold in that

area, we recover the cess from the seller whother he uses the market or not, because the jurisdiction of the sed to cover the municipal area. He could sell it outside municipal limits and then he would All weighmen and brokers are licensed. There are no unlicensed brokers or weighmen marl et is supposed to cover the municipal area not be charged When the cotton is taken to the gin by the buyer and there weighed and a sample is drawn to test the under the cotton is not up to the sample, an allowance is made. The allowance is settled between the commission agent and the broker. The former acts for the seller and the latter for the huyer. If there is no broker, the buyer and the commission agent settle it hut the seller has no voice in the matter. The reason 13 that the seller 13 not competent to do so If he were competent, he would not engage a commission agent The buyer and the seller would then settle themselves If the buyer and seller do not come to terms, the soller removes his cart and goes to another buyer. The allowance and rate are settled before the cetten is weighed. Weighing means here retual delivery. The allowance and rates are not settled late at night unless the buyers and soller are friends or where they can see that they can settle matters amicably. The terms must be settled before the weighment. If the eart came late in the night, then the cotton would be weighed the next day. If the seller removes the cart from the market, he can then sell it to another buyer. It is better for him to sell the cotton through aratyas and brokers. Brokers are engaged only by the The system of aralyas has prevailed for a long time The aralya pays money at once whereas the broken may keep the seller waiting Aratyas do not buy cotton for themselves. They enter mio a certain agreement with the Cotton Market Committee and, according to that agreement, they must not huy cetton for themselves. If any aratya bought cotton for himself and the fact came to the notice of the cotton market committee, the Cotton Market Committee would take suitable steps. An aratya can buy cotton hut he cannot buy cotton which comes to him for sale He may buy cotton from other aratyas When an aratya wants to get cotton for himself, he can buy it from other aratyas. The aratya receives a commission from the seller and he cannot therefore act both as a commission agent and a buyer. If he has There is no nece sity to engage a commission agent for the buyer here. Some of the buyers however, engage commission agents. These commission agents are to receive the commission from the seller he must sell the cotton to somebody else. He can buy hunself from another aratya who do not send their representatives, however, engage commission agents. These commission agents are considered to be buyers themselves. When aratyas who deal in cotton buy cotton for themselves, they can not look round and secure the best quality for themselves, because the cotton is sold to the highest bidder. When an aratya buys cotton for himself, it is the licensed weighman who weighs it. There is no difference in the system. As to the cheel on the work of the weighman it is possible that he may be bribed. But in We have got a clerk who always checks the weights and such eases we can dismiss the weighman at once inspects the licenses of the weighmen. The aratya is not bound to engage the same weighmen. No in-

stances of bribery have occurred here. If such things came to the notice of the committee, the weighman would be at once dismissed.

4105 (Mr Hodghinson) The buyer and the seller settle the price, they look at the sample and they pull the sample out of the bag as the Committee saw this morning. They judge on that sample. Sometimes staple cotton comes here for sale from the Nizam's Dominions, and in that case it is tested for staple. Two years back there was no railway near Hingoli and so staple cotton from there used to come here for sale a rule they do not test the steple When such cotton used to come, we used to test the steple In British territory, there are certain parts where staple cotton is produced and if that comes here for sale and if it is to

be bought as staple cotton, the huyers look to the staple
4106 As to the other forms of adulteration besides damping, semetimes when the last pickings of
There is no adulteration with sand or soil except in a very few eases in which cultivators bring in kapas for sale and put some soil in it. But when it is detected, an allowance has to be made for it

4107 (Mr Roberts) There are no markets in small places. Only where there is a big quantity of on to be dealt with is there a market. The distance from which this market draws lapas is about fifty cotton to be dealt with is there a market miles The nearest markets to Akola are Balapur (12 miles), Akote (28 miles) and Bassin (40 miles) is an existen in the establishment of these markets. It is not necessary that there should be markets where there are gim. There are giming fretories outside Akola but they have direct. There is a ginning fretory at Burgron, which is ten miles from Akola, but not a market. At Medsi, fourteen miles from Akola, there is also a ginning factory which buys direct

Mr BALWANT R GADGIL, Secretary and Manager, Savatram Mills Co , Ltd , Akola

Exampled at Arola, November 16th, 1917

Written statement

I -AGRICULTURAL EXPERIENCE

(a) " Deshi " short staple cotton

4108 (1) Experience -I have been living at Akola in Akola District for the last 25 years. I am not i i actual touch with the cultivators

Mr BALWANT R GADBIL

Continued

4109 (2) Varieties —Generally there is only one kind of deshi short stapled cotton which is called jan: Several names, however, are given to it after the names of villages in which it is grown
4110 (6) Comparative returns—The proportion of the return of the deshi short stapled cotton if
compared with that of deshi long stapled one, is about three to two

4111 (8) Uses of seed and seed selection —The cotton seed is used for feeding the cattle and for erushing oil in the local mills. Most of the quantity is experted for the above purposes in the Punjab and some other places in India and for the crushing purposes to the continent. The cultivators whose financial position is good select kapas of good quantity at the time of the second picking from their fields and gin it separately, and the cotton seed produced from this ginning is used for sowing purposes for their own fields and also for selling to their customers for the same purpose. The practice of using cotton seed of hand gin mealings is hand about the continuous of the continuous seed of the seed in the continuous seed of the seed of hand gin machines is being abolished, partly because of the exorbitant rates of that kind of seed and partly because the cultivators have now realized that there is no appreciable difference in the seeds from machine gins and hand gins

(b) "Deshi" long staple cotton

4112 (11) Varieties —There are two kinds of deshi long staple cotton—pullaghat and adghat, though soveral names are given to them after the names of villages in which they are grown up. In fact, pullaghat is not grown in Akola District. That kind of cotton comes in this market from other places, such as, Risod, Dhauki, Waduna, Marwari, etc. All these towns and villages are situated in Ycotmal District.

4113 (15) Condition affecting increase in area—I have been dealing in cotton purchases for the mills

for the last thirteen years

During the first eight years, I had no difficulty in getting sufficient desh long stiple cotton for our mills

The outside mills also were buying here freely Among the above varieties, specially the Dhanki cotton was fair in staple and also in class and used to come in big lots in Akola market But during the last four or five years, there is great searcity of this cotton. Owing to this searcity, I have to import such sort of cotton from outside stations, such as, Nander, Omari in Moglai and Pandharkawada and Chanda in Berar Tho thing is the cultivators have realized that the production of short stuple cotton is nearly fifty per cent more than that of long staple and besides the yield is earlier. They are now taking cotton seed of short staple ootton from here for their sowing purposes. The result is, owing to this scarcity, 1 have to pay higher prices than before for the staple cotton and still the cotton is not of one and the same kind, it is mived with a small proportion of short staple cotton. In paying higher prices, my opinion is that the mill owners are not losing. They are gotting proportionately higher rates for higher counts. Some three or four years ago, the difference in the prices of 10s and 20s, was about one rupee while the present difference. is about about rupees two and amas eight. If the mill people continued to pay still higher prices for the long staple cotton, it will be an inducement to the cultivators to sow cotton seed of long staple cotton. For this inducement it is also necessary that the Government must try for the selection of the cotton seed and see that only selected cotton seed is sown This is the only chance of increasing the production of staple cotton This experiment can be tried only on places such as Dhanki, Wadun', Risod and all the villages in the vicinity of the above towns, because these places are favoured with proper site and climate to suit the The benefit of this, however, will be available for Berar and Central Provinces mills only Bombay mills cannot stand the competition of these mills, thoy being close to this market were pleased to undertake this sort of experiments, they will not get full success, unless the cultivators are educated and their financial position is improved

III -STATISTICAL

4114 (33 and 34) Improvement of cotton forecast and other statistical information—The picsent cotton forecasts and the cotton press returns are quite sufficient and I have nothing to suggest any improvement therein except one, that the returns in case of latter should be received from all the mill and

press owners so as to have recurate figures in the end

4115 (35) Publication of Liverpool and Bombay prices—The telegrams of the Bombay cotton market reports are received here by the big merchants according to the fluctuation. These reports are of no use to the cultivators and they have to depend for the prices upon their aratyas. As for the reports of no use to the cultivators and they have to depend for the prices upon their aratyas. As for the reports of Liverpool market, it is not possible to get these telegrams direct in up country markets, as it is very costly This information is duly received by those concerned from their Bombay agents and there is no other possible way for it

IV --MANUFACTURE

(a) Ginning and pressing

4116 (36) Type and number of gus and presses —I have got 60 gms and one cotton press

4117 (37) Size of bale — The size of the cotton balo pressed in the factory is 50 inches long, 20 inches broad and 22 inches high

4118 (38) Saw gins versus roller gins —The saw and double roller gins are successful with Indian cotton of long stuple only
4119 (40) Factory labour —I always experience great difficulty in securing labour for gin and press

and more so for cotton mill

4120 (41) Condition of cotton —The raw cotton which reaches this market is mixed with leaves more or less and this is due to bad picking by the labourers in the fields and the great anxiety of the cultivators to send their production to the market as early as possible to realize money

(b) Spinning and weaving

4121 (43) Counts spnn and market for yarn or cotton — I spin from numbers 6 to 26 and the principal markets for our yarn are Purulia, Dhamtari, Sambalpur and Calcutta, and for cloth the Central Provinces and Berar

Mr BALVANT R GADGIL called and examined

4122 (President) The Committee saw my mills this morning. We do spinning, weaving, ginning and pressing We got staple cotton from Waduna, Omerkhod and Risod in the Yeotmal District The cotton

[Continued >

Central Provinces]

comes here for sale as it is a big market This is bank but it is not so good as it was four years ago also comes from the Nizam's dominions For reseum we pay Rs 2 to Rs 3 more per khandi over oidmany fire For bane we pay Rs 10 more Four years ago, we used to get bane in abundance and pay the same price for it as for jare Now we pay Rs 10 more per khandi for lapas The present I handi is 784 lbs For price for it as for jan. Now we pay Rs 10 more per snanar for rapes and provided in the country it was 560 lbs. There is no bans in the market this year. As to the counts that we can spin from bans, morely it was 560 lbs. There is no bans in the market this year. As to the counts that we can spin from bans, morely and 30s from mull laghat we can spin up to 24s waip and 30s from mull laghat we can spin up to 26s weft. From Waduna and Nander we can spin up to 24s waip and 30s from mull laghat we can spin up to 26s weft. from pul laghat we can spin up to 26s weft From roseum we can spin twist from 16s to 18s As mill owners, we want to have more long stapled cotton It is only the mills that want long stapled cotton here Roseum is a good cotton for short counts but it is always mixed by the cultivitors They say that it is roseum, but pure roseum is not coming into the murket and when it comes in a small quantity it does not fotel its proper price as the buyers cannot got it sufficiently. It is only a few cultivators who bring it in separate carts. The other kinds of cotton that we get here are 1211, adghat (1211 and bant mixed, from ghat side) and pullaghat, i.e., bant We get them from Omerkhed, Risod and Waduna Pure roscum is always difficult to get. There is a lot of mixing going on still with jare because some of the cultivators are illiterate and do not know its value. So they do not bring it in separately and this is the reason why they do not get better rates for reseum

4123 We buy Lapas in the market seeing only small quantity of lapas from earts We see the samples from two or three earts and then give our offer to the seller If he prefers our rate, the barg in is settled for The carte are sold through the aratyas In other mulets, these aratyas are called the whole lot of carts When the carts come into the factory compound, we again see the samples from each cart at the time of weighment If the lapas is inferior to average quality or if there is damping, we make some reduction in the rates offered in the market. In fact the prices that are settled in the factory yard are the true prices. The prices offered in the market are not final because it is not possible to settle final prices there, there being no possibility of seeing the whole stuff properly. Thirty nine in unds of lapas give fourteen maunds, i.e., no possibility of seeing the whole stuff properly. Thirty nine includes of lapas give fourteen maunds, i.e., one bhoja of 392 lbs of lint for ordinary jan. In offering the price, if we think that the lint will be less and that we shall have to purchase more lapar than 39 maunds to get one bhoja of lint then the price of lapas If it is more, the price will be increased. These things are approximately will be proportion tely less estimated in the market

4124 I cannot tell you the difference between rescum and jarr Roscum has a slightly better staple and better colour than jarı From jare we can spin up to 14s and from roseum we can spin up to 18s twist and the percentage of loss in the blow room is less in the case of roseum

4125 I do not find that there is much damping of ootton in this market. If there is, it is due to rain falling on the way. There is no deliberate watering of the cotton coming in the market. Petty morehants semetimes damp. It used to be very common but is not now.

4126 (Mr Weeken) We buy our bank from Nander Some four years we used to buy it in Akola as Dhanki cotton used to come here. Now a days, cultivators of Dhanki are buying cotton seed from Akola district purposely of short staple for their sowing purposes and so the Dhanki cotton is turned into short The object of the cultivators in doing so is in their own interest, because the production of short stapled cotton is more than that of the long stapled and besides the yield in case of the former is earlier. Dhanks, Wadhuna, Omerkhed, these towns are near to each other and the climate is good for the production of stapled cotton in great quantity, provided the cultivators make a point to use cotton seed of their own production for sowing purposes. Thus there was garden to find suppose the cotton and we had to send our men to Nander and Parbhan. This cotton is longy and so the loss percentage in blow room is more than that of Waduna and Omerkhed Wo pay a higher price and buy selected crops, so the mixture in our purchases is less than average. If there is any mixture, it is in the field. It is not ospecially adulterated by merchants. We buy mostly kapas because we have to propare a class and staple just according to our requirements

4127 We gim our own Japas in our own gins which we have to buy for the purposes of our mills only and therefore we do not take into consideration the extra price that we have to pay for better cotton. There are some fretories at Nander which are owned by Marwaris and Parsis. The ginning is very bad on Nander The seeds we crushed and not much attention is paid to ginning

4128 I do not know what the present price of cotton is at Nander but last year it was sla and a half anuas per pound of bane and wont up to sovon annas The price of jari here at that time was five annas There was thus only a difference of one and a half or two annas per pound over Akola cotton about half an anna to bring cotton from Nander to Akola Last year I paid two annas per pound more for Nander cotton than I paid for jan cotton Practically we paid Rs 100 per khandi for Nander or other long stapled cotton than for jan cotton here. The difference has increased during the last three years By that the millowners are not losers. There is a big demand for long stapled cotton now. It has increased for the last three years. for the last two years and the difference in price between long and short stapled cotton has widened weaving purposes we want long stapled cotton, especially as the climate of Akola is dry and changeable

4129 There is no market for our yarn in this district We sell at Nagpur, Calcutta, Jharsuguda, Sambalpur, Purulia and Dhamtari The counts that we sell are from No 6 to No 22 At present the biggest demand is for 14s to 141s from Purulia and Dhamtari Two years ago, the higgest demand was for its is increasing. For our wearing purposes, counts from 10s to 14s I think that the demand for finer counts is increasing. For our wearing we use 20s warp and 26s woft. We always spin 20s warp. 16s warp will not be profitable to us there are people who spin 16s but I do not know how they make a profit out of it. My experience is that the lower the count, the less the profit. For long cloth we use 20s warp 26s weft. We still sell long cloth in the Central Provinces. We have been spinning the same counts always. We have got a limited market. My experience is that We are not sending our cloth to Bombay where the system is quite different from here. If we could get more long stapled cotton, we would like it. It has been very difficult for us to make a sufficient stock for the last four years owing to shortage of long stapled cotton. I am quite prepared to pay a higher price for it if we could get it. I cannot say exactly what higher price I should be willing to pay for it. The present season has just commoneed and I cannot give you the figures. We were last year paying actually Rs 10 more and we were prepared to pay something more if the difference in the price of yain remained the same. If the price of long stapled cotton increases, the difference in the price of yarn will also melease. It has actually increased during the last two or three years. The difference of price between the mercase It has actually increased during the last two or three years. The difference of price between the two qualities of yarn, 212, 10s and 20s was Rs 1 4 0. The present difference is Rs. 2 10 0 for our yarn. This is due to the high price of long stapled cotton

Mr E S SHROFF

4130 (Mr Hodglinson) I had some experience of Cambodia cotton at the outset When we were short of stock we had to huy some cotton of that description from Bombay Of course price could not he taken into consideration when we wanted to keep the null going and we had to use Cambodia But as loug as we can got cotton from Nander and locally, we do not go to Bombay We used Cambodia to spin 20s warp We mixed it with cotton from Pandherkevada in Yeotmal and from Nander and it worked all nght

4131 The percentage of size that I put on my warp of 20s, depends on the texture of the cloth Sometimes we have to put on six per cent, sometimes 16, 20, 25 up to 30. It depends on the quality of cloth. When we are manufacturing *khadies*, that is very thick cloth, we have to put forty per cent size on the warp. We have never tried 16s warp. Wo have heen only spinning 19s and 20s. When we spin 20s, the size gain is more than in the case of 16s or 18s warp. That is the reason why we want long stapled cotton, as it takes more size than the short stapled. As to the question, whether if we get a slightly higher count. say 24s instead of 20s warp for juiting on fifty per cent size, I should say no, as at the same time we must keep the texture of cloth, as 24s warp with same kinds of reeds and picks will give thin texture and the cloth

will not be approved of among the users in the long run
4132 (Mr Roberts) I have already said that I paid Rs 10 more per khandi of bani kapas of 784 lbs
last year This year we have paid Rs 10 to Rs 12 more for bani kapas hut according to the present calcula tions, if no take into consideration last year's rates, we shall have to pay Rs 15 more on the basis of jani But this will depend on the quantity of ban cotton available and on the question of the supply and demand of the stuff If the arrivals are less, perhaps we shall have to pay something more because we must buy to keep the mills going The staple of roscum is slightly better than jari. The percentage of loss of roscum in the blow room is less than that of jari. For the last four years, we have found it very difficult to get long stapled cotton. There is a great searcity of long stapled cotton. Before that we used to get all the cotton we required in the local market but now we have to send our own men to the different parts simply

hecause there is seventy of long stypled cotton
4133 I have heard of Mr Clouston's Seed Unions but I bad nothing to do with them. Then object is to ensure a supply of pure roseum I do not get my roseum from Ru Schob Ganeshdas Kundan Mal I buy from the local market When the cultivators hring in their curts, they say that this is roscum but it is not so good as on the Government Farms. In spite of the efforts of the Agricultural Depart ment, roseum does not come to the market in the pure condition

Mr E. S SHROFF, Agent, Messrs Volkart Brothers' Agency, Khamgaon

EXAMINED AT KHAMGAON, NOVEMBER 18TH, 1917

Written statement

I -AGRICULTURAL EXPERIENCE

(a) " Deshi " short staple cotton

4134 (1) Experience —I have been stationed for over 22 years as cotton purchasing Agent for Messrs Vollart Brothers, Bombay, in Khamgaon under Buldana district and in some of these years was deputed at the fag ends of the Khungaon scasons to Aligarh, Surat, Broach and Wadhwan for purchasing cotton I have been Manager in Khamgaon for 22 years of Volkart's United Press Company, Limited, Press and Gin l'actories I was chairman for over fifteen years before 1914 of the Khamgaon Cotton Market Committee I have had opportunities of being in touch with cotton oultivators in Buldana district
4135 (2) Varieties — Deshi short stapled cotton, familiarly known as jari is grown in Buldana district of

two varieties

- (a) white flowered called roscum
- (b) howrs, a general name

4136 (3) Size of holdings —I have no accurate knowledge as to the average size of holdings of culti They vary from three or less to forty acres and more

4137 (4) Yields and profits —Please refer for reply to the statement below —

Deshi short stupled cotton grown in Buldana district cotton area 722,290 acres

| | Varicties | Percentage of Area under cetton | | Average yield of lint per acre | At present price worth | Profits por acro |
|---|-----------|---------------------------------------|----------|--------------------------------------|---------------------------|---|
| | i | | | lbs | Rs | |
| 1 | Roseum | 22 | 38 to 40 | 200 | 200 | Not knowing the ex penses cannot esti- mate the profit per acre |
| 2 | Howri | 78 | 34 to 36 | 145 | 72 | Not knowing the ex- penses cannot esti- mate the profit per acre |

4138 (5) Rotations and manures - Usually cotton cultivation one year is followed by jare or bajra cultivation the following year But owing to unprecedentedly high prices ruling in past two years, cotton 18 bown consecutively without a hreak If the system of rotation of crop is not observed and the cotton is consecutively sown, it is affected by cotton wilt generally. For manuec house refuse and eattle and shoop dung is used generally

Mr E S Smroil

[Continued

4139 (6) Comparative returns —Please refer to statement below —

Returns of deshi short and long stapled cotton, and of exotic long stapled cotton (under normal conditions of weither) compared-

| | Varietics | Ginning per centage of lint to seed | Average yield of lint per sere | At present price worth | Remarks |
|---|--------------------|---|--------------------------------------|---------------------------|---------|
| 1 | Deshi short staple | | Its | Ra | |
| 1 | Roseum | 38 to 40 | 200 | 100 | |
| 2 | Hown | 34 to 36 | 145 | 72 | |
| | Long staple | | | | |
| 1 | Indigenous Banı | 28 to 30 | 100 | 60 | |
| 2 | Exotic Buri | 33 to 35 | 125 | 75 | |

Reseum —Highest yielding superfine classed of soft feeling cotton, gradually replacing other short stapled varieties Cannot resist wilt disease, spins 16 to 20 yarn

Hown —Lower yielding fine classed cotton Cannot resist wilt, spins 16s, to 20s yarn

Bant -Long stapled, lowest yielding, silky, fully good class, best tensioned cotton, cannot resist wilt

spins 30s and above Can take good quantity of sizing

Buri —Long stapled, better yielding, fine classed, tensioned cotton, can spin 303 and above

The entire district is covered by deshi short stapled cotton excepting a few patches of hilly grounds where no other than the upland Georgian type can be sown.

4140 (8) Uses of seed and seed selection -The seed is used at home partly for sowing and for cattle and is exported to Bombay, Kathiawar and Punjab for cattle requirements Care is being taken for selecting seeds for sowing Kapas buyers generally gin separately best outturned lapas and sell the liberated seeds to Lunbis for sowing at a higher price than of ordinary seed Kunbis get ginned their best Lapis intended for securing sowing seeds, and reserve a portion for their sowing purpose and sell the rest to other cultivators for sowing. There are centres opened under the control of the Agricultural Department where purest reseum cetton seed is sold to lumbis Some Lunbis hand gin their select lapus for sowing seed

4141 General —I should respectfully suggest that as long stypied cotton is a desideratum both for England and India, and is also in demand for Japau, its cultivation should be extended as much as possible in a way that would prove profitable to the cultivator

(2) As a long stapled cotton requires a full six months to be matured and is therefore at the mercy of weather for two months longer than required for short stepled cotton, which besides is converted into money two months earlier than the long stapled cotton and as it also is low yielding, it is necessary that a cross bet ween ressum, the short stapled and lighest vielding kapas, and a long stapled kapas be established, so that a combined result of a long stapled high yielding four months growing type of cotton can be brought about which may not be affected by wilt and might find favour with the cultivators pecuniarily

(3) I should suggest an experimental crossing and breeding between a high yielding short stapled cotton

like reseum, and a good yielding best stapled cotton like Cambodia from the South of India or any other from any place where the conditions of rum and temperature are similar to that of Berar For this purpose Agricultural Chemists are needed for different districts who can experimentally find out the right sort of manure containing such component parts as are to be found in the soil where both the crossed types are growing

(4) I should suggest for each talul one expert Assistant Agricultural Inspector instead of one in a whole district containing six taluls, who should have come out of Pusa or Poona Agricultural Colleges

II.—COUMPROIAL ASPECT

4142 (30) Local trade customs — There are five central cotton markets in Buldana district to which oultivators carry their lapas in earts, which they entrust to agents or registered aralysis of the cotton market who for a commission not occiding one per cent (as fixed by the market committee) sell the ready Iapas and gimed ready cotton brought from gin factories in the interior, at highest rates to buyers, in the market. The aratyas furnish weighing scales and weighers and give the deliveries of Lapas to the buyers in factories compounds by weighers in their service. They collect the proceeds from the buyers and pay over to the cultivators They lend money to cultivators for field work and domestic purposes which they gradually recover with interest from proceeds of kapas or cotton sold by them for the cultivators There is no future buying of Lapas and cotton Only ginned action is at times sold forward for eight or ten days delivery

4143 (31) Standardization of commercial names —All Lapas and cotton coming to markets from Buldana district is called hours, and that from ghat side which has somewhat silky short staple is called ghat These distinguishing names are appropriate and do not require to be altered

4144 (32) Buying agencies —The present system is the best form of buying agency All local buyers or exporting firms agencies have proper arrangements for buying

III -STATISTICAL

4145 (33) Improvement of cetton forecasts —I have had no opportunities of testing the correctness of forecasts of acreage published by the Agricultural Department but I am under an impression that it is carefully prepared by a Revenue Inspector in each talul of a district

Mr E S SHROFF

[Continued

(2) The cotton forceast in regard to the outturn of cotton is published in the Central Provinces Gazette and it might be made more clear. For instance, in regard to one district we read a remark, "cotton outturn equal to 80 American notation," but the equivalent in 1bs of 100 American notation are not noted in it. In regard to another district, the term notation is dropped and a remark made "thirteen annas erop" What we require is, how many bales of 400 lbs may be estimated for the acreage of a particular district or talul as we notice in American cables forecasts of American crops. I should suggest that to ensure best possible accuracy and to enlighten the cultivators in matters agricultural, and to collect data, each talul. of a district should have an Assistant Inspector instead of one for the whole district

4146 (34) Improvement of other statistical information—The return of cotton bales pressed in

presses, as published in the Central Provinces Gazette, comes to hand two weeks after the bales are pressed There is no room, however, for an improvement But the return of arm als in cotton markets of Berar fur nished by the cotton markets to the Ducetor of Agriculture and Industries and published in the Central

Provinces Gazette furnishes figures of weekly and up to date total arrivals as under

Number of earts of kapas (in 4th and 5th columns)
 Number of earts of bhojas ginned (in 6th and 7th columns)

Persons in cotton trade can work out the quantity of Lapas by multiplying the number of earts by an average outturn quantity, say, 36 to 37 maineds (of 28 lbs) per eart. But the terms in 6th and 7th columns "number of earts of ginned cotton bhojas" is meaningless. It should be altered to "Number of ginned bhojas" A cart brings from one half to five bhojas and any attempt to discover the number of bhojas from the number of earts would be in vain A bhoja weight ten to eleven maunds on an average, and the number of bhojas might be multiplied by ten or eleven mainds by an inquirer to get an idea of the quantity of arrivals of ginned bhojas. It would be the easiest thing for cotton markets to mention the "number of bhojas" in their retuens to the Agricultural Departments, because market duty is taken at one anna on cach bhoja and not on each eart containing bhoja or bhojas

4147 (35) Publication of Liverpool and Bombay cotton prices —The buyers keep in touch with the Liverpool and Bombay cotton prices, but the sellers in the markets have not that facility They would

welcome the publication of these quotations published in right time to be of any use

IV -MANUFACTURE

(a) Ginning and pressing

4148 (36) Type and number of gins and presses—We have a Hodgart's press and finisher, others at the same or Nasmyth type We have gin factories of Platt's single roller gins. Our gin factory have the same or Nasmyth type contains 47 gins

4149 (37) Size of bale —Our factory and all factories press bales of 400 lbs gross

- 4150 (38) Saw gins versus roller gins —I have no experience as to the merits of saw gins understand that the saw gins are used for kumpla, a strong fibred kapas and the fibre is a shade burt by the saws but the cotton comes out in white nice layers. Saw gins are suited to lumpla cotton and not to other descriptions. Roller gins are suited to the cotton of districts where they are used. They don't cut the fibre if correctly set
- 4151 (40) Factory labour We experience greater difficulties in obtaining factory labour which becomes searcer and dearer every year
- 4152 (41) Condition of cotton —The condition in which raw cotton reaches our factory is not object tionable
- 4153 (42) Effect of replacement of shortstaple cotton by longstaple -No change in the machineryof press or gin factory would be necessary if any large quantity of short stapled cotton is roplaced by long stapled cotton

V -GENTRAL

4154 (46) Attitude of buyers to improved cottons—Bhoja buyers, ic, mill buyers would certainly see their advantage in encouraging the growth of long stapled cotton, because the tendency now a days is to weave fine county but their wish to encourage the growth is hampered by their having to pay the duties on yarn or counts spun in India Were it not for these duties, they would naturally like to give the cultivators a higher price than they would now wish being saddled with the duties

4155 (49) Effect of tennre of land -The land tenure in no way affects the extension of cultivation of cotton

VI -Irrigation

4156 (73) Deshi versus American cotton -- Cultivators do prefer to cultivate deshi cotton to American eotton as the former gives a higher yield per aere, and takes two months less in maturing and has to be at the mercy of the weather for two months less. Its proceed is realised two months earlier than for American eotton and at the right time for paying Government revenue

Mr E S Sunorr called and examined

4157 (President) I have a very long connexion with this market extending over a period of 22 years At present there is only one kind of cotton that comes into the market and that is gari, a short staple cotton There are now two varieties of this—one is the newly introduced white flowered reseum, and the other is There is no long staple cotton to be seen now in this market Bani used to come there in ealled howrs the old days It has not been coming during recent years. It is not now grown. I can distinguish pure roseum from ordinary jari. We do get pure roseum and pay a higher price for it over the ordinary jari mixture. The premium might amount to Rs. 10 per I hands of I apas because the seed is sold at a verry high rate and we have to make an allowance for that. The other day. I paid Rs. 3 more per I hands of kapas for roseum which means Rs 8 more per I hands in Bombay, but I got it back over the seed which fetched Rs 4 Roseum is softer to the feel than howrs cotton and is also cleaner as it is free from leaves over ordinary seed Owing to war conditions, most of the cotton is now We gin and press ourselves here The staple is short

being sold in Bombay to the Bombay mills

ig sold in Rombay to the Bolmbay littles $4158 \, \, \mathrm{I} \cdot \mathrm{m} \, \mathrm{a}$ very old resident of this part of the Central Provinces and take some interest in its agricult development. I have brought for inspection some samples of Cambodia cotton which. I have grown by own compound this year. This I ginned to day. I do not think the soil is favourable to its growthest only a few plants just to see whether it could be grown. The ginning percentage is about 381 per cent. tural development in my own compound this year I grew only a few plants just to see whether it could be grown I grew only a few plants just to see whether it could be seen that I was surprised to notice this It loses a little in colour when ginned, possibly on account of the heat I was surprised to notice this difference in colour I had it ginned in a Platt's single roller gin I sowed it in October 1916, because it is sown in October in the south of India There were flowers on it in April but they dropped and there was no sown in October in the south of India I allowed the plants to remain and in June there was rain and the plants improved greatly and gave such an abundant crop that it was a slight worth seeing. I have sown it again as a rain crop in my field but it has not yet fruited. It is in fair condition considering the bad weather this year. I have no land but it has not yet fruited y own I experiment on the land belonging to my Company
4159 I buy all my cotton in the cotton market I deal largely in Lapas and not in ginned cotton I

I have some experience of cotton coming from Nander in Hyderabad buy from the local market

It used to be pure ban but it is now being gradually mixed very long staple cotton

4160 As to cotton forecasts, I consider that a good service is done by the Central Provinces Gazette in publishing the forecasts but they should be published in a way that people can understand them—For instance, the last forecast of yield for the Akola district said that it was 80 American notation—I do not think that any body could easily understand this The forecast for the Buldana district was given in annas is difficult to compare a forecast in American notation and one in units I should like the Agricultural Department properly manned so that there should be one assistant in every taluk instead of one assistant for a whole district which contains as many as five or six taluks. The yield should be expressed in an equivalent a whole district which contains as many as five or six taluks of bales of 400 lbs so that one could get a commercial idea of what may be expected

4161 The press returns are complete because all cotton has to be pressed in some press and all the presses are sent post cards on which they send the returns of bales pressed in their presses and therefore there is no I did not know that many presses do not send in any returns If that is the case, I should room for mistake think that the returns ought to be made compulsory Possibly you do not get returns from some presses as they are not working. I think that it would be a good thing to make the submission of the returns com I have criticised the present weekly returns for the following reason Every cotton market levies a tax of one anna per eart of kapas and also one anna per bhoja of ready cotton In the sixth column of the statement in the Central Provinces Gazetto, it is simply mentioned that so many earts arrived This has no meaning at all because a cart can carry half a bhoja, two fifths of a bhoja and so on It should be In the sixth column stated how many bhojas arrived as it is very easy to work out the total arrivals by the market receipts

One rupee receipt would mean the arrival of sixteen bhojas

4162 I think it would be to the kunbis' advantage to publish the Bombay and Liverpool prices in the

All the brokers and aratyas do not get information from Bombay, only those persons who local markets

buy for Bombay

4163 (Mr Wadia) I have not seen bani for the last five years but when I last saw it, I saw a sample of an excellent cotton as well as some which was called ban but which was not as it was mixed. This mixture was probably done by middlemen. The kunbis do not gin. The middlemen buy kapas, gin it and sell it to In order to get a profit and because they get short stapled cotton very cheap, they mix it with

long staple cotton and foist it on the public as long staple cotton

4164 As to the mixing of the local varieties of jan and pure roseum, tho kunbis bring in the roseum separately but if they happen to have some mixture when they have some hours kapas, they take things casily I gin hours and roseum separately, but then again I mix roseum with hours in order to send it to Sometimes the lapas comes in mixed, hours and roseum and Ingrazi, a lapas which Bombay after ginning has black seed. The mixing of Lapas goes on in the mixing. They may have some very fine lapas and they may have, on the other hand, some bad lapas and in order to make it a class they mix a small proportion of the bad Lapas with the good and make it a class by itself. I mix cotton after it has been ginned accurately in order to bring up the class of my cotton. When Lapas is mixed, it is not done accurately.

Also, The cultivators are very careful about seed. The seed for sowing has a special name. It is called

portion of the seed is roseum but that a little is mixed, he passes it all off as resoum and the poor I unbi is deceived. The Agricultural Department is doing a very good thing indeed in keeping seed pure. The kunbis are buying from them as well as in such places as they believe that they can get genuine seed.

4166 It does not necessarily follow that it would be better to send the two classes of cotton separately to Bombay as both classes have the same staple and mixing gives the class that is wanted in Bombay exporters press bales separately of fine class, superfine class, fully good class and good class and sell on the types they send from here to Bombay and make up the price. I am not aware of the details of my principals' business. They make type samples in Bombay and send me instructions as to what I am to do. When they receive cotton, they consider whether it is up to the samples and inform me accordingly If I get superfine cotton, I try to mix a small proportion, say two to three per cont, of inferior cotton with it so as to give the whole a good class

4167 Kapas called Ingrazi comes in occasionally I think it is a type of American Upland Georgian which came in some five hundred years ago and has assumed its present form Burn is a different variety of Upland Buri is a better cotton than Ingrazi but it is not now seen in our market—it used to be seven or sago—None is now grown in this district—Bani is a long steple cotton which takes six months to grow People do not care to grow any cotton that is exposed to the mercy of the weather for another two months. If a higher price was paid proportionately to compensate for the disadvantages, the cultivator would certainly grow long staple cotton but the proportion is never paid. If roseum were sold at four annas per pound or say at Rs. 200 per I hand; and ban; at about Rs. 300 or Rs. 320, the people would jump at the latter but that has never been the case and the utmost that they pay is only Rs. 15 to Rs. 20 per I hand; more than for jar: I have bought ban; many a time and I did not get more than Rs. 10 extra for it in Bombay I was not a ware that the price of Khamgaon Al claste days; Rs. 450, and that of Proced Rg. 480 whilet the I was not aware that the price of Khamgaon Akola to day is Rs 450, and that of Broach Rs 480 whilst the quotation for Nizam's territory pure ban; is Rs 590 but if there is such a big difference as that, I should think

that it would pay the cultivator to grow the long staple If pure bani fetel es such a high price as that, I do not think there would be any mixture in the ginning factory I ceause when a man pays such a high price for bani, ho would not erre to mix it with roseum or any choic staple cotton. I have seen Parbham cotton. I opened our agency there. That cotton used to be very good some years ago, but then it was mixed with Ialna and the cotton is getting worse and worse every year. I do not see any remedy to stop mixing. I would not singgest legislation to stop mixing because it would interfere with the liberty of the subject. Why should Govern ment tale so much trouble on helialf of the reople who want long staple cotton, i.e., on behalf of one section of the population as against another? People minst ray for what they went. If they ray for it, there will be many people who will be quite ready to give them the stuff they want but I do not think it would be fair for Government to legislate. The question was threshed out many years ago and I think the Government did right in resembling their legislation. The cultivators will produce pure bane cotton if they are paid for it

4168 I have written a letter, dated the 22nd October 1912, to the Commissioner of the Berar Division 4168 I have written a letter, dated the 22nd October 1912, to the Commissioner of the Beraf Division regarding the damping of cotton which I wish to put in as evidence (Annexino). I think that there is an idea that too much damping is done. The damping here is about one per cent. This males no difference and there is no fraud in it. I admit that there are others who dampivery heavily, and palpably but this small moistening does no harm. On the contrary, it does good. The buyer here must compete commercially lie hurs for profit and if others do it, he has to do, otherwise he would be driven out of the market. If the damping is more than one per cent, it is had. If cotton is allowed to remain in the godowns during the monsoon season at the end of the monsoon, you will find it eight to ten per cent heaver there is a chance of The cotton is the one thing in the world which suel sup moisure very readily whenever it gets a chance of doing so. I ven if we send our bales quite dry in the cold weather from here, they would still lose in weight by the time they reached Bombay but in the hot season, they gain in weight. There must be something in the atmosphere which brings about this change. Nothing suggests itself to me as a remedy for early like these If there were legislation to prevent damping, it would be fair to all business reople alike In Shola pur in the Decean and other places, there is rain in the cotton season and you cannot stop the cotton being damp. I bought some lapas in Aligarh for a few months and I had to expose it to the sun for days to get it dri and to pick out the vellow stained stuff as it was picked early in the morning. Would the legislation proposed remedy all these things entirely? There is no objection as far as I can see to legislation instituting a testing house

4160 I have already advocated that all ginning and pressing factories should be compelled by legislation to submit their returns. Power may be given to the magnetrate of the district or the tabuldar or the cotton market committees or a section might be introduced in the Factories Act to ensure the submission of correct returns but, as regards becaming gins, you might as well introduce beenses for mills or other factories. I should certainly object to the introduction of a beensing system under which if a man damped heavily his working beenso would be withdrawn. A merchant is not an ordinary man to be beensed

to do his business honestly

My idea in regard to crosses, which is that of a practical man and not of an expert is this defect in the lant lapas is that it has a very low ginning percentage, about 26 per cent, while the ginning percentage of Cambodia lapas is about 36 to 37 per cent. Then again roseum has a good ginning percentage but a short staple and as Cambodia is the best staple cotton found in India, a cross between them, if it were possible, would be a good thing Tho Cambodia whileh I have produced has been watered from a well. It was grown under irrigation from October to April, thereafter it got only rain water. I have also planted it under rain water in June and it has done well with no irrigation at all. I think the long staple cotton requires six months to grow and that is the greatest drawback to long staple cotton Roseum being cotton of four months' growth and Cambedia of six months, it is possible that a combination might be made which would result in a better cotton with a chorter period of growing

4171 I have stated in my written exidence that the aralyas lend money to the cultivators The interest the, charge for this is about Re. I per month, sometimes perhaps more. The highest, that they charge is about

Rs 18 per month or eighteen per cent per annum
4172 The statement in paragraph 4150 of my written evidence that the fibre of cetton is cut by saw gins
is not based on personal experience, and I should lile to cancel it

4173 (Mr Hodglinson) I did not change the grid of the gin to gin the Cambedia cetton I have produced There is a difference in the colour of the layar and the ginned cotton, but I do not think that it is due to the crushing of seed. On account of the unfunely run in October aid November, there has been this discolouration. The grid is generally altered to suit big cotton seed. Spirogrids are kept. This cotton would not be cleaner if it were ginned with a wider grid. At the beginning of the season, we use the wider grid but at the end of the season when the layar becomes very inferior, we have to put in the narrower grid. Two gives of grids are quite sufficient

4174 As to whether there is any adulteration less des damping. I do not call damping adulteration There is, however, a form of adulteration which I will explain to you. The day before yesterday, I saw two wagons of *larges* coming from Jalgeon, Khandesh. They were steeked in a ginning factory as a matter of favour and were carted again the next day to the Khangaon cotton market and Lought by certain merchants. who were tempted by a couple of rupees less rate and were resold again in the Khamgaon market as Khamgaon cotton The difference between Khandesh and Khangaon cotton is nearly Rs 25. If you call that adult ation, there is certainly adulteration to a great extent. There is no adulteration with said or dirt but there used to be when hand ginned cotton came into our market. Now a days hand ginned cotton is a

negligible quantity

4175 (Mr Henderson) Whatever reseum cotton I get I gin separately and sell the seed I sell about three thousand bags of rosenm seed, at a premium of Rs 3, 4 or 5 over desh: I sold yesterday roseum seed for sowing at Rs 26 and ordinary seed I sold at Rs 21 Roseum seed is dearer thus year because the lumbs says that there has been untimely rain and the lapas is bad and he is anxious to get supplies of good seed for next year. The quantity of pure roseum which comes into the market is not very large. I should say it is only about fifteen per cent. It does not contain any admixture at all unless the lumbs has been deceived when buying seed as roseum which is not roseum. I can tell the difference between the seed of puro roscum and of roscum mixed with hours by the shape of the seed and in other ways. Roscum has about nine or ten seeds and hours six or sexen. I should think that the cultivators do not find any difficulty in getting pure seed now that central farms had been established. Certain cultivators do not his to sow reseum. on account of its boing liable to wilt. There is a small proportion of Upland American in ordinary jane. It is

Mr Ghulan Yisin Khin

[Continued

thout fifteen to twenty per cant. If the cultivators want to get pure seed, they know where to go. The reason for their growing part is thet they have a sort of belief that their soil will not grow anything else but part. The tresatisfied with y hat they have been growing and they do not like to change. They are very The are satisfied with a hat they have been growing and they do not ble to change

con civative. Her grow it I ceauce they life it and not because they cannot get pure seed 1176. Bent has disappeared in Berar. It has disappeared because as I have sud, it is a six months' Bant is therefore exposed to the viciositudes of the season for crop's here's recent is a four months' crop two n onthe longer than the other variety and the money for rescum is realized two months eather just at the t me when the Government assessment falls due Burr is not much in favour now that roseum has come in Bier has the same period of growin as bane, i.e., six months or perhaps more. The growing period of Upland Georgien in n ore than four months, it puts in an appearance a month after the ordinary deshi lapas comes in I think there is a demand for Ingrant seed as there are some soils which do not grow any other Ingrant cotton has a longer period of growth than deshi I would not favour the introduction of a good Ingiazi seed to meet that demand as the outturn will be poor

1177 (Mr Roberts) The seed that I sell is not passed by the Agreeltural Department. I take the responsibility myself. We buy the receipt in the market and must find a purchaser for it at the higher rate and we therefore I cep it separately. We work independently of the Agricultural Department. The figures as to the yield of hours and roscum that I have quoted in my written evidence are based on what I heard when

I was in Al old from agricultural gentlemen, possibly Mr Dube
1178 I have theady suggested that the crop returns should show the number of bhojas and not the early but it is the easo that cotton is sold in cortain places where there are no markets. As to how returns of thojas should be obtained where there is no cotton market, the cotton comes in the shape of kajar. In Khangson bhojas come from places where there are gims and in order to have an idea as to the quantity actually arriving at Khamgaon the number of bhojas should be Norc recurate informat on could be got from the return of the pressed bales

A179 (Mr Wedia) We stamp the sides of the bales as well as the top - Everybody stamps on the sides

The owners name is also stamped

1180 I should hie to say something about manuro which I have not mentioned in my note. It is believed that, many years ago, the soil of India was more fruitful than it is now The people were allowed to have free arcess to the forests to get wood for burning as fuel and therefore more con dung was available for manure instead of being used as fuel. Bones were not exported so largely and were not drained out of India as they are not. Now that the forests are closed and condung is in request for fuel, there is nothing to take its place. The hones of the cattle that die are all exported. If legislation is called for for protecting trade and for protecting industries then there is a very strong reason for legislation to protect the *Lumbis* in the way that manure may be reserved at home. The manure question should be taken up, and shones should to a certain extent be allowed to remain in the places where they are required. To go on further, Government might on behalf of the agriculturists construct some bone crushing mills and only make a nominal charge or give the manure to the lumbis grats The cost would be returned to the Government many times over by the good that the manue would do to the soil Something should be done in the shape of a protective duty on exports. Government should help the Lumbis is they do the planters and other bodies. Why not help the Lumbis? Because they have no voce. The Lumbis will use the cruched bone most very readily I do not think that they would have any easte objection

Ai nexiore

Intract from a letter addressed by Mr. P. S. Shreff Agent Messis. Vellant Brothers' Agency, Khamgaon, to the Commissioner of Beran, dated 22nd November 1912.

Damping cotton - Dunping cotton in a moderate degree is not only necessary in order to safeguard the pressing machiners, but such moderate damping certainly also improves the quality of the cotton to the ad is staple, so that the consumer can make use of it for a much better quality of yarn, than he would be able to, if the cotton were not damped at all. On the other hand, I admit that damping is taken recourse to m s terry excessive way by some merchants, natives chiefly, not only with a view to improve the quality of the otton, but also in order to mercaso it, a eight, that therefore damping should not be interfered with officially, is long as it is done moderately but that there is no doubt that it would be very desirable, indeed, to put a stop to excessive damping but I realize that it is very difficult for the Government to exercise a control over the point where the Inic should be drawn

I should submit that the remarks passed by Mr. Arno Schmidt are too servere, oven with excessive damp The consumer at home is hardly a sufferer. As cotton loves moisture always as readily as its takes it up and a cotton is generally sold on biss of the weight found on delivery at the point of destination, there is ample time between despatch from up country and arrival of the goods at port of destination, for the contents of more time in the bale to adjust itself. It is cliefly the buyer in Bombay who is the loser, because he pays for more weight, than he will exentually land at home. Experience has shown that cotton damped in India. always loses more or less and cometime very heavily in weight between the shipping date from India and tho

date of delivery at port of destination

Mir GHULAM YASIN KHAN, Chairman of the Cotton Market Committee, Khamgaon.

TYME FD AT KHINGAON, NOVEMBER 17TH, 1917

No written statement was submitted by this witness

4181 (Wr. Raha) I cm Chamman of the Cotton Market Committee. If there is any friction between buvers and others the Committee settles if then and there after listening to the complaints cheelst cighment in the vord, and allo sees that no complex are taken from earts from which no purchase i mad and that there is no underlisted dealing. The venchmen there are private servant of the aralyas and are not independently licensed. We have no becased brokers. The aralyas have to pay a fee of Rs. 35.80

Burma]

Messis Finlax, Flexing & Co

per annum to the Market Committee No fees no charged for weighment. The aratyas pay two annus per per annum to the Market Committee. No fees the charged for weighment. The aratyas pay two annual per eart from the meanne they get from the lumbs. The aratya has to provide hands for unloading and weighm in and has also to pay the one anna cotton market fee per eart. The aratya has to provide hands for unloading and weighm in and has also to pay the one anna cotton market fee per eart. The aratya is not allowed to commission from the buyers. They are only allowed a commission from the sellers. The aratya is not allowed to buy cotton for the also which he are as agent. Sometimes when the buyers get telegrams about the dealings of Lombay market, they reduce the rates. At sich times aratyas are it a disadvant ge but generally there is no difficulty about setting prices. The sell is has no voice, as the aratya represents him and it is the latter of botton. Sometimes buyers ume to take deliver and in such a cos arbitration would be nest Sometimes buyors ume isonably refuse to take delivery and in such or as arbitration would benefit the seller I would appoint as arbitrators any to o persons on the birser's side and any two per one on the seller's side and both the birser and seller hould be present at the arbitration. These arbitrators should have no concern with the transaction. Weighnent are carried out fully. No deductions are made. Unfine weighment i not given, because the aralyans reponsible for the mistake of the weighm in So it is his business to check the weighm in If he is eaught by the buyer then he is responsible for his negligence. The weighm in cannot be bribed as the weighm; is done in the presence of both the soller and the buyer. The weightern is the servent of the aratya so he cannot show any favour to the buyer. Sometimes deductions are made oning to the dampness of the cotton. Fine aratya so the site into with the buyer. The aratya pays the sellers at once whether his has recovered from the buyer on not. He pays from the buyer of the cotton of the aratya pays the sellers at once whether his has recovered from the buyer of the pays from the buyer. his own each and then gets back the money from the buyer. So no of the aratyas ide neemong to the cultivator and some do not. I have no experience of what interest they change. Though I am in aratya my elf, I have never lent money to cultivators

III.—Burma

Messrs FINLAY, FLEMING & Co, Managing Agents, the Burma Cotton Co, Ltd.

These with esols were not opally examined

Written statement

I — AGRIGULTURI AL LAPLPIENCE

(a) " Deshi" short staple cotton

4182 (1) Experience —We have experience of the dry zons in Upper Burma for thinteen years 4183 (2) Varieties —The variety grown is what is generally known as "Rangoons 4184 (3) Size of holdings —The plots are small, as a rule one to have seen. All of the holding if not follow is generally under cotton

4185 (4) Yields and profits — The yields vury giently, running from 50 to 120 viss of lap is per nero 4186 (5) Rotations and manures — Occasionally millet is planted otherwise followed. No manures

(7) Conditions affecting increase in area —The area fluctuates considerably according to place obtained during the previous season and meidence of run at time or planting. Given high enough prices, the area can be increased considerably. Ramfall and probable better return from secret crops up the chief

factors in limiting increase

4188 (8) Uses of seed and seed selection —Seed not required for cultivation is crushed by the Europeau giming comprises who have special crushing mills. There is very little seed selection processed. The big gimers are divers willing to gin specially and return the seed to cultivate but the lapas has, as a rule, got into the hands of middlemen before it reaches the ginners. The iniddlemen water freely with the result of damaged seed. Given a low level of prices for lapas, a certain uncount is had ginned to used. The

Agricultural Department are attempting seed selection but council get ahead for want of funds
1189 (9) General economic conditions—We consider that while it is improbable that a long stapled
cotton could be grown successfully in Upper Burma on account of the general poor nature of the seil, and
uncertainty of the rainfall, a great deal could be done to improve the indigenous cottom by the est ablishment The Agricultural Department are we nuderstand doing all they can but as mentioned above without funds, their task is hopeless. Wo would ulso singgest the friming by the Agricultinal Department of three or four holdings of say five teres each in some of the largest cotton growing districts Conditions should in no way be specially selected and the same plots should not be kept permanently should make no 1 died change from cultivators present methods but give total proof that by proper ploughing, some manuring (not expensive is the cultivator expensive in the cultivator expensive in the cultivator expensive in the cultivator expensive in the cultivator in the cultivato improve the standard of the cotton obtained icsulting in a higher basis of price to every body concerned

(e) Evotre cotton

4190 General -- Experiments were made by us with various American and Egyptian varieties is field crops and wore uniformly a fulure

II -- Commercial aspect

4191 (30) Local trade customs —The cultiviter in Upper Burma in the cotten districts is as a rule a small holder with little or no uncars. Two good crops in three years are considered exceptional. He is thus a pool man and as a rule last to a use money on a part at any rate of his crop before it comes to maturity. This brings in the jungle trader, a small man with a little capit if After him we get the big trader or speculator who, as a rule, does not operate to any other until the lapas is actually in godown. Gimers in turn employ brokers to whom considerable advances have to be made in order to get supplies from one of the above named sources

Burma]

Messie Jamal's Cotton and Produce Company

III -STATISTICAL

4192 (33) Improvement of cotton forecast —The cotton forecast for Burma, so far as outturn is concerned, is generally very far out. This is probably caused by the large variation in outturn per aero and the concerned, is generally very far out. This is probably caused by the large variation in outturn per aero and the difficulty in gauging effects of weather until the erop is actually marketed and a ginning outturn obtained

1V -- MANUFACTURE

(a) Ginning and pressing

4193 (35) Type and number of gias and presses—We have Platt's gins—60 at Myingjan, 40 at nnin total 100, also a Henry Berry hydraulic press Mymmu

4194 (37) Size of bale —71 Cubic feet is the size of the bale produced by our factory
4195 (38) Saw gins versus rollers gins —We tried a saw gin but it did not compare with roller gins
4196 (40) Factory labour —Until recently labour has been plentful but on account of the past few

cars of good crops and high prices, it is becoming increasingly difficult to obtain
4197 (41) Condition of cotton — Kapas is watered and mixed but the only nomedy would seem to he in ginners hands. Concerted action to make it immemunerative for the suppliers to adulterate should soon stop this but, under present conditions, this is impossible

Messrs JAMAL'S COTTON AND PRODUCE CO., LTD., Rangoon

THESE WITNESSES WERL NOT ORALLY EXAMINED

Written statement

I -AGRICULTURAL EXPERIENCL

(a) " Deshi" short staple cotton

4198 (1) Experience —The company owns cotten ginneries at Myingyan in the Molkilla Division and at Allanmyo in the Thayetmyo Dans on of Burma Our representatives at the gunneries are in actual touch with the cotton cultivators

4199 (2) Varieties —The variety of cotton grown in Myingyan district is known locally as wa gale

and that in the Allanmyo district as we gyr

4200 (3) Size of holdings --Holdings in which cotton is grown vary greatly in size but are mostly small,

the average being probably only a few acres
4201 (4) Yields and profits—The average yield of law cotton per acre is found 300 lb We are unable to say anything regarding the profits per acro obtained by the oultivator

4202 (5) Rotations and manures — Manures are not usually applied. In Myingvin district, cotton appears to be cultivated without any regard to rotation whereas in the Theyetmyo district we understand

most of the cotton is glown on temporary clearings worked for a single year only
4203 (6) Comparative returns—The two varieties of Burma cotton, viz, wa gyi and wa gale are

both short staple Exotic cottons have been experimented with but without success

4204 (7) Conditions affecting increase in area -The area under cultivation of cotton in Burma varies considerably year by year, the principal determining factor being the prices obtained by the cultivator for his cotton. If cotton prices rule high in one season, the oultivator usually increases his area under cultivation for the following season and vice versa. There is a possibility of the area under cultivation of short The chief factor which would limit the increase in cultivation is price staple cotton in Buima increasing obtuned for the raw cotton as compared with other crops which could be grown on the same ground area in Burma suitable for growing cotton is limited but undoubtedly a considerable increase in the area at present under cultivation could be effected

1205 (8) Uses of seed and seed selection -The principal uses to which cotton seed is put are-

(a) Soning

(b) Crushing for the expression of oil and manufacture of orko

(c) Export

(d) Cattle feeding

Seed selection (for deliver, to cultivators for sowing purposes) is practised by the guiners to the extent that only seed obtained from the first quality of raw cotton delivered to the factories is in issued to the culti vators Seed produced from inferior qualities of raw cotton is not issued to the cultivators. A certain amount of hand ginning is done in Buima. Tho seed obtained therefrom is utilised for sowing purposes but the bulk

of thing ginning is done in Burnt. The seed obtained the following burner is attracted to bound purpose of the seed used for sowing is obtained by the cultivators from the large ginneries.

4206 (9) General economic conditions—In our opinion, the two varieties of cotton grown in Burna, viz, va gui and wa gale are perhaps the most suitable for the conditions and climates of the respective districts in which they are cultivated. Experiments with exotic cottons have not been successful. Useful experiental work is being done by the Government Agricultural Department in ondervouring to improve the present agricultural properties of action by coreful and selection and cultivation. Passults so for obtained are encouraging. Ex ranches of cotton by careful seed selection and cultivation. Results so far obtained are encouraging periments so far have been on a small scale only. The cultivator makes no attempt at selection of raw of The cultivator makes no attempt at selection of raw cotton He mixes good and inferior qualities indiscriminately, his object being to obtain a uniform price from the millers for his produce. It is impracticable for the ginners of millers to re-grade the raw cotton after it has been carefully mixed by the cultivator. If the cultivator would grade his raw ootton according to quality and deliver it without mixing to the guiners, he would be enable to obtain for seed purposes from the guiners seed produced only from the best ray cotton. Guiners have endeavoured for years past to impress this on the cultivators but with only partial success. If the cultivator could be made to understand that by grand his cotton as above, the yield obtained the following year from the superior seed would amply reward find for the trouble tall as at time of raisely for the standard partial f the trouble taken at tune of plucking in grading his cotton, our opinion is that the result would not only be a larger yield of raw cotton per aere but also a longer and more uniform staple cotton

[Continued

(2) In our opinion, the best results in improving the standard of cotton cultivation in Biuma are likely to be obtained with the assistance of the Agricultural Department. This Department would at present appear to be handicapped through insufficient staff. The ginners would gladly assist, as far as it lay in their pever, the efforts of the Agricultural Department to improve the cultivation of cotton. Perhaps the most discourse factors of factors the cotton to the perhaps the most discourse factors of the cotton to the cotton of cotton. disastrous factor affecting the cotton trade in Burma in recent years has been the permeious practice indulged in by some oultivators and middlemen of adding water to their raw cotton before delivery to the ginners Cotton which has been 'watered' very seen herts when stored in large quantities. The result is that fermen tation sets in, and the seed becomes damaged and unfit for sewing purposes. The lint is also damaged both in colour and strength. This practice of watering cotton was very prevalent in Burma a fer years ago. The gumers have now practically entirely stamped it out by refusing to accept cotton which has been watered. It is not, however, always possible for the ginners to detect cotton which has been watered. The object of the cultivators in watering their ootton is to increase the weight and thus obtain a larger return for their produce

(c) Exotic colton

4207 General -Long styple cottons we not grown in Burma Exporiments with exotic long staple cuttons have se far proved about ne

II -COMMERCIAL ASPECT

4208 (30) Local trade customs—The larger firms owning gumenes appoint agents at the principal stations or allages in the districts—The agents buy the raw cotton through brokers who deal direct with the cultivators—The bulk of the cotton or in Burna blower is brought direct to the gumenes by the brokers. The ginneries are situated more or less in the centre of the cotton growing districts—The firms advance money. The ginneries are situated more or less in the centre of the cotton growing districts. The firms advance money to the brokers who buy the raw cotton from the cultivators. The brokers are paid a brokerage by the firms to the brokers who buy the raw cotton from the cultivators. The brokers are paid a brokering by the firms

It is a common practice for ginners to make contracts with blokers for a specified quantity of law cotton
to be delivered within a definite period at a fixed price. A certain amount of raw cotton is brought direct
to the ginneries by the cultivators but, as a rule, the cultivator prefers to sell to the brokers who tale
delivery of the cotton on the spot and thus save the cultivator the trouble of taking his cotton to the ginneries

4209 (31) Standardization of commercial names—There are no generally recognised standard com

mercial names for the various grades of ray cotton in Burma. The cotton is delivered at the ginneries in casts containing about 200 viss on an average. The ginner examines each cart of cotton and grades it No. 1, No. 2 or No 3 quality according to his standard of classification. No 3 quality at one ginnery does not necessarily correspond with No 3 quality at another ginnery. We do not consider it practicable under present condicorrespond with No 3 quality at another ginnery. We tions to standardise the different grades of classification

4210 (32) Buying agencies -The present system of buying agencies as outlined in answer to question 30 (paragraph 4208) is in our opinion the best suited for Burma

III —Statistical

4211 (33) Improvement of cotton forecast — The Government cotton forecast as at present published

supplies useful information as to the acreage under cultivation and is, in our opinion, sufficiently recurrite
4212 (35) Publication of Liverpool and Bombay prices — Most if not all of the ginues obtain regular
information regarding cotton prices ruling at Liverpool, etc. We do not think any useful purposes would be served by a daily publication of Lacerpool and Bombay Cotton pieces at upcountry markets

IV -MANUFACTURING

(a) Ginning and pressing

4213 (36) Type and number of gins and presses —We use Platts' roller gins. Our Myingyan guinery cout uns 100 gins and our Allanmyo ginnery 60 gins

4214 (37) Size of bale —Tho size of balo produced is 3ft 1 m × 3ft 1 m × 1ft 7 m or sty 7 75

cubic feet weighing about 400 lb

4215 (38) Saw gins versus roller gins - Wo have no experience of say gins but understand they we unsuitable for short staple cotton

(40) Factory labour -Difficulty is occusionally experienced in obtaining a sufficiency of labour at

the ginneries (especially pickers) during the height of the senson when all the ginneries are working full being 4217 (41) Condition of cotton—Please see our answer to question 9 (paragraph 4206). The ginners would much prefer that the raw cotton be graded by the cultivators and not delivered in a carefully mixed condition as is at present the practice in Bunin. If the cultivators would keep the different qualities separate, the ginuer would be saved the trouble and oxpens of picking over the cotton and would be able to pay the caltivator a correspondingly higher pages for his cotton

(b) Spinning and neaving

We understand Burma cotton owing to 4218 General —There alo no spinning factories in Burma its short staple is misuitable for spinning unless mixed with long staple eotton

V ---GENLRAL

4219 (46) Attitude of buyers to improved cotton —Ginnors would girdly pay a higher puce for improved 1 m cottou corresponding to the higher value obtainable for the elevned cotton in consuming markets

VI -IRRIGATION

4220 (68) Fluctuations in river supplies and their effects—The livers increase rapidly at the beginning of the lains say June and gradually decrease October onwards. The lising and falling of the livers has little effect on the cultivation of cotton in Billian. Kamfall is the principal consideration. The cotton is sewn at the beginning of the unonscene season. Wo do not think irrigation enters largely into the question of increasing the cultivation of cetton in Burma

4221 (73) Deshi versus American cotton —Om experience is that the Burmese cultivators are very conservative in their ideas of cultivation and are very reluctant to experiment with new varieties of cotton Punjab]

Mr CH MOUIALIS

IV —Punjab.

Mr CH MOULAKIS, Agent, Messrs Ralli Bros, Amritsar, Punjab

EXAMINED AT LAHORE, JANUARY 9TH, 1918

Written statement

I —AGRICULTURAL EXPERILNCE

(a) " Deshi " short staple cotton

4222 (1) Experience -I was stationed in Sand for seven years and have been in the Punjab for the I eame into actual touch with the cultivators in Sind, but do so only occasionally in the Punjab last five years

4223 (7) Conditions affecting increase in area — The air under cotton fluctuates, the tendency for it is to go on increasing. The factors, influencing the nicksonuncially with cotton, are principally economic An increase in prices of cotton will all we bring about an increase in area, and a slump in prices results in a shrinkage of the area by discouraging the grower, who only extends his cotton cultivation at the expense of other crops, in the hope of better returns

(2) The climatic conditions at the time of sowing have also an influence on the area put under cotton Sersonable and favourable 1 ams account for a larger arou in unningated tracts being sown with this crop On the contrary, the area diminishes, if the runfall is insufficient or if unsersonable and excessive rains damage

the sowings or cause failure of germination
4224 Bad handling of collon -- Under favourable conditions, there are possibilities of a great develop ment of this crop An increased yield as well as an improvement in quality may confidently be anticipated in the course of time. The way, however, the *lapas* is handled in the field, market and, to a much greater extent, in the factory, is not conducine either to preserve the quality of cotton up to the necessary standard or to arrive at the best results for selection of seed. This selection would gradually bring about both an in consequently more attractive to the grower. The Lapis is mostly picked early in the morning, damp with dew and collected in the shadier put of the field often in the empty irrigation channel, so that not only should it not lose any of its dampness, but with a view to absorb more moisture before it is certed away for marketing This affects the colour of the lipis Deliberate damping of lapses is not practised and only occasional cases have come to invenier. All lapses from a field, good bad, or indifferent, ready for picking at a certain time, is picked together. The lapse suffers further by bad handling in the markets, where the cartloads have to be unloaded in the mandis, being repacked in bundles when sold and removed to the factories All this unneces

stry handling and throwing on the dusty or damp ground affects the quality

(2) In markets where lapses is sold in cuts and then removed to the factories without further handling, better qualities are invariably obtained. What the cultivator commences unknowingly and because he had no inducement to do better, the ginner completes by deliberately mixing all his purchases, in the attempt of turning out a uniform quality, and by bid handling and ginning, due mostly to the inadequate means at his disposal, and his short sighted policy of prefering an immediate likely better return to all future possibilities 4225 Recommendations in regard to increase of production and improvement in quality—If the desired

increase of production and improvement in quality is to be secured, (1) the glower should be made to realize that the price to be obtained for his crop depends, not only on the actual outtuin of lapas per acre, but also on the percentage of lint in the lapas (the price of lapas being based largely upon the amount of lint it yields) and (2) on the standard of purity of lapas. The ginner also should be induced to increase the standard of purity and general condition of the cotton

(2) What is required is-

(1) In the fields—Stimulation of improved methods of cultivation and a certain selection of lapas, not only by the Agricultural Department, whose work comes under the notice of comparatively a small number of people, but by the large landowners There is no better inducement to a ryot to adopt an innovation than to see his neighbour growing better crops or adopting methods through which he gets more money

(2) In the market—Marketing of all girdes separately with as little handling as possible

(3) In the factory—Careful grading at the factory of all Lapas and separate ginning of each grade after proper drying and picking, in order to presente the punity of the grade and increase the staudard of quality

(4) Seed of the best grades to be kept separate by ginners and sold for sowing purposes to cultivators at the price of ordinary seed. This would bring good seed within the reach of the cultivators comparatively in a short time, and prove a very effective method of spreading the use of seed. of my strain that would be recommended

(3) At present, the only work in seed selection is done by the seed faires and seed unions, but their number is inadequate, and they can only supply very limited quantities of seed
help in the direction of seed selection, and I beg to give an instance
their ginning factory in Mirpurkhas (Sind) in 1907, the average yield of lint per maind of lapas in the district
was 12 seers 8 chitaks at most. Under the guidance of the Agricultural Department and with the assistance was 12 seers 8 chataks at most Under the guidance of the Agricultural Department and with the assistance of Messrs Ralli Brothers, who had been setting aside the seed of the lots of lapas giving the highest lint outturn and had supplied the same to the cultivators at equal rates with ordinary seed, the gradual improve ment of the crop was secured, and in 1913, when I left the district, the average yield of lint per mound of kapas stood between 13 seers 4 chataks and 13 seers 12 chataks

(c) I volte collon ,

4226 Requisites for success -1he success of the crotic vinotics is governed by the principles mentioned The variety of long stapled cotton which will give a larger acreage profit over other cottons (taking into consideration the more expensive and eareful mode of cultivation it requires, and the greater length of time it takes from sowing to harvesting and also the greater risks from the vicissitudes of the verther) is sure to find favour with the grover, and be given preference over less prohiable varieties

Punjab]

Mr CH MOUTAKIS

[Continued

- 4227 Dangers of adultination and deterioration—The dangers of the adulteration and of the deterioration of these classes of cotton are much greater than for ordinary varieties, and may be sub-divided into two entegories, the remediable and the unitemediable ones
 - (a) Remediable —I consider as such those resulting from had selection of seed defective cultivation, deliberate mixing and had picking in the field, mail et and fretory. Also had ginning
 (b) Unremediable —Those dependent on the poor nature of the soil and the viciositudes of the weather
- The methods commercial above for decla cotton if applied more strictly in this case, will meet most of the dangers

4228 Remedics - The ginners can do a great deal gradually to reduce the dangers of deterioration and

adulteration to a minimum-

- 1 By buying each lot of lapas on its own ments of purity, and standard of quality, thus teaching the grower that it is to his advantage to leep separate the different grades of lapas and offer them for sale separately
- 2 By judicious selection and classification at the factory of all grades and the separate ginning of such grades
- 3 By strict and careful selection of all lapas, the seed of which is to be lept separate and sold to the cultivators for sowing

II -Co IMPROINT ASPECT

4229 Necessity for control of ginning factor is —It's played by the ginner in all lifely improve mentallegalding cotton is so great that without his coloperation very little can be attained. In order to secure his coloperation, I am strongly in favour of some kind of control being exercised over all factories

(2) No factories ought to be allowed to be put up before plans have been submitted and approved and all new as well as existing factories to be allowed to work only after obtaining a license to this effect

(3) Factories ought to be provided with adequate space for proper drying, storing, and handling of lapas. The evils resulting from insufficient space cannot be emphasized too strongly. The building proper of the gimery ought to be on a model that would minimize the first sof numerational adulteration. The principal improvements that I would recommend are—

Spacious lapas platforms behind the gins

- A mechanical contrivance for earrying layas on to these platforms or, if this is difficult in practice, a separate entranco leading to these platforms for the men carrying the layas
- 3 All gins to be fitted in front with a board of twenty to thirty medes high to prevent part of the lapas thrown into the gins from falling over into the ginned cotton

The above will prevent much of the mixing of ginned cotton with lapas

- 4 Small lattice work platforms to be placed on the lapas platform before each gin, the lapas in handfuls should be shaken on these platforms before it is thrown into the gin
- 5 Similar lattice work platforms to be fitted on the floor before each gin, where the ginned cotton drops from the roller
- 6 The front plates of the gans should be properly fitted, and should not allow any seed to drop, as it does at present, where the gamed cotton is

7 Automatic transport of cotton seed

- 8 Factories ought either not to work at night or otherwise he well lighted with electric light
- 9 Proper setting of gins with a view to the better mode of ginning and not only with a view to better outturn por gin
- (4) Licenses to be granted to all new factories on the above stipulations, and non-compliance with any of these regulations to be regarded as an offence. Existing factories to be given a period (say six months) within which to conform with the new regulations
- 4230 Necessity for change in attitude of trade to cetton of improved quality—An improvement of quality means a certain loss in weight of lay as through dryage and eleming, there is also greater expenditure on labour, etc. It would be natural, therefore, and necessary for the trade to encourage the efforts of the ginner (as the ginner will be expected to encourage the grower) by giving preferential treatment to better qualities and paying prices that would compensate the ginner for any lifely loss, expenditure, or trouble for turning out better qualities
- (3) As far as I am aware, buyers contract for cotton of fan average quality of the season, and pay no premium if they are officed better cotton at the time of delivery, and are unable in meny cases to fix allow ances, if the cotton officied is inferior. So they encourage the turning out of a uniform quality and indirectly of turning out infer or qualities. The ginner, who has to turn out one quality in his turn, does not encourage the grower to offer his different qualities of lay as separately by paying preferential rates for good clean parcels, but regulates his prices by offering an average rate for the day's armals

4231 Pocks and pressing returns —Pools are organized for the benefit of their mombers at the expense of the grower Pressing returns are helpful to the trade, and I am in favour of having them published weekly

Mr CH Mourikis called and oxamined

4232 (Mi Henderson) I will first state my experiences of the American cotton that I bought in Sind The quality was very good but the drawback was that it did not give the same return per acre as deshi. I have not much experience of long staple cotton but I should thin! that it was about the same as 4F. I have not been buying any American cotton in the Punjab. I have been buying all deshi. There was American cotton at Lyallpur when I was there. One of the difficulties in dealing with American cotton in Sind, was that there was a prejudice against the seed. The cultivators objected to it as they said the cattle would not eat it. The premium had for American det deshi was very small, in fact, in some cases there was no premium at all because of the lower ginning percentage of the American. For this icrson we bought often American lapts in Sind practically at the same rate as deshi. There was no encouragement to the cultivator to grow it as it required more cultivator and was not giving a better icturn than deshi. I thin! that there are good prospects of success for American cotton in Sind if the cultivator got a proper price for it. I have seen fields of American cotton in Sind which looked much better than deshi at have seen plants over six or seven

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The zamindars so d that they could grow the crop but that it did not pay them to do so The amount of money that the cultivator would get not lear any object on on account of leaf blight

from his crop would be the dec ding factor as to whether the variety would find favour with him
4233 I was in charge of Ralli Prothers' factory at Minjurlbes In certain districts in Sind, such as
Shell had hit the lajas gives the very high ginning percentage of as much as fifteen seers per maund. In these Shall hold hat the lay as gives the very high gamin g percentage of as much as interest seeds for manual. In these diet ets, the cultivators only sow the seed that they themselves have hand gained so that the punity of the seed siret and. They do not but the resed from the gaining factories. At Minpullahas the gaining percentage was very low, it was about 12 to 12.8 at best. The Agricultural Department at that time were trying to empreve the gaining percentage. Of course, in a big district, it was very difficult to select seed. We tried on our put to improve it. We imported every year a large amount of hapas from Shalhoblint, and other places g mind it and kept the seed separately. We used to ask the cultivators who came to the factory for on our put to improve it We imported ever places g micd it and kept the seed separately ecd will ether they wanted seed for feeding their cattle or for sowing purposes and if they required it for sowing, we gave them the special seed at the same price as ordinary seed and told them not to use it for feeding cattle The Agricultural Department recommended all the cultivators to buy seed from us because they have that seed The very first year, there was a noticeable improvement and the ginning percentage Up till now the improvement has been permanent. The trade revenue of the Jamrao ours was a selected seed begin to increase district has increased considerably in consequence. From a maind of forty seers, we used to get 121 seers of hit Now from the same amount we get 13½ seers, so that there has been an increase of at least a seer. There have been lots which gave 14½ every of hint to the maund of kapas. I think the cultivable area com manded by the Janurae is alout six hundred thousand acres, so that naturally there has been considerable mercase in the erop

4274 Co operation between ginneries and the Agricultural Department is quite a feasible thing so long I do not think they would be willing to give then as there is some kind of control over the factory owners There must be some central in some way or other so that they should be made to help, because after all it is to their benefit to do so I did not find any difficulty in persuading the cultivators to take the seed I have come across native factory owners in many places trying to make a little more money from the seed by selling inferior seed to the cultivators at the rate of good seed. I certainly think that there is an opening in Sind for this class of worl by collaboration because if seed selection is not kept up, the cotton naturally will deteriorate Seed selection must continue. It is not necessary to import all the seed because the seed of the Jamuse tract at present is just as good or better in some respects than the seed which was originally imported I should think that the firm of Ralli Brothers would be very willing to help in a matter of this kind especially as it would be also to their interests. I cannot of course pledge them to anything 4235. I came to Sind towards the end of the growing of Egyptian cotton. It was a delicate crop and was

attacked by bollworm A great mistake that was made, in my opinion, about this crop was that people who had no experience of this variety of cotton were allowed to commit themselves to forward sales exceeding the actual production of the crop. These people in order to fulfil their contracts encouraged the picking of all the actual production of the crop inferior lapas and got together all successing as long as same were coming out of Egyptian cotton plants. The result was that the cotton turned out was inferior and the reputation of the variety was spoilt. I do not think that Egyptian cotton has really had a fair trial on its merits. In the first year, it was a success, in the second year, the quality was spoiled by middlemen as just explained. I do not think that there is anything against Fgyptian cotton in Sind. As far as the quality of cotton went, I heard that the first year's crop which had been pieled pure was sold at a very good price and compared very favourably with real Egyptian. It is a matter of organization, if it is well organized, my belief is that it will be a success. The seed for sowing and particularly the lagas should be carefully selected, because cotton plants of different varieties are bound. to be found in every field and the strain will never be lept pure without such selection. If the cultivator was left to his own devices, he will pick all the laras and mix it together What is required is organization The whole thing can be greatly assisted by the giming factory owners If the work of the ginning factories is regulated, the selection of lapas as well as of seed will come by itself If a factory owner pass a certain price for a certain quality of lapas and proport onately less for an inferior [quality and refuses to talle mixed stuff, the cultivator will be taught to select his lapas. It will be to his interest to do so. That will enable pure Egyptian cetten to fetch a big premium. The giming percentage of Egyptian cetton was poor but I think it would pay if it were earcfully selected. The cultivator will always give preference to the cetton that pays him lest whether it is deshi, American or Egyptian. There is an opening in Sind for capitalists to take up land as d grow Tgypt an cotton, but the Jamiao canal must work regularly and not give the diffi culties which have been experienced in recent years

4236 As to the omparative merits of cotton in the Punjab and in Sind, I am not an agriculturist, but I think that in Sind the percentage of the lint of deshi cotton is higher than it is in the Punjah and that cotton is generally better treated in Sind than it is in the Punjab. In Sind, no lapas is ginned unless it is previously As to the comparative yields per acre, they are higher in Sind, where picking goes I think in Sind we can red on safely on six or seven maunds of Japas per acre taking dried and cleaned a bit on for a longer period the average of the districts, whilst in the Punjab, I doubt whether it comes to more than four in both the irrigated and i nirrigated areas. The limiting factor in Sind is that cotton is confined more or less to the south. I think there is scope for the cotton in the north of Sind. I was only a short while in Sukkur. I think that the people did not grow cotton there because they did not know the crop they had never tried it before and they did not know what return it would give them. If people were anxious to grow cotton, I do not think there would be any difficulty about it

4237 I think that attempts in the past to grow exotic cotton in Sind failed through want of proper organi It is true that the staff of the Agricultural Department was rather a small and the tract was a very hig one but, no matter how big the staff of the Agricultural Department is, it will be insufficient to deal with the problem unless it has the co operation of the trade and of the ginning factories

4238 The Indian cultivators as a rule, are not prepared to take good advice when it is given to them They want demonstration It is not sufficient to growthings on the Government farm to convince them they point to the amount of money spent and the convenences the Government farm people get in regard they point to the amount of money spent and the conveniences the Gevernment farm people get in regard to water supply and so on, but if they see that their neighbours are growing some thing which pays, they naturally do hill exist the following tear. I do not think that the staff of the Agricultural Department will ever be too much. A large extension of the Agricultural Department would do immense good to the country 4230 (Mr. Roberts) Cotton growing is getting popular with the cultivators because it pays them better than any other erop. It is my experience both in the Punjab and Sind, that cotton pays better than wheat in most tracts. I have been in the Punjab for five years. I came let at the beginning of 1913. I was

Mr CH MOULAKIS

[Continued.

stationed at Lyallpur, and in charge of practically all the districts from Wazirabad to Shorkot Road in one season Since then I have been in Amritan I did not but I have seen 4F, and thought it a nice cotton of long staple I did not buy ony American cotton when I was at Lyallpur I tried to buy some at the anctions but I was overbidden by the ginning frotory owners who were selling it at Bombay

4240 I should like to explain the system of buying in the Punjab and how it works against the everent in quality. The buyers commence buying cotton on contracts before the crop comes in In improvement in quality such contracts, no particular quality is mentioned but only fur average quality of the season's production When the time of delivery comes, buyers have to accept against their contracts any cotton turned out by the sellers factory as long as such cotton is not very much lower in quality than the cotton turned out the sellers factory as long as such cotton is not very much lower in quality than the cotton turned out by the other factories in the place. All buyers do not naturally buy blindly but make their own estimate of what the quality of the crop is likely to be for the season and offer prices accordingly. If they are offered better cotton at the time of delivery than the quality of their original estimate on which they fixed the contract price, they pay no premium to the seller But neither can they recover any allowances, if the cotton offered is inferior, and more or less uniform in all the factories of the place. In the first instance, their business shows a profit, in the second a loss This gives no inducement to the sellers (factory owners) to improve the quality of their ginning, but on the contrary, encourages them to turn out the lowest possible quality that would be passable against their contracts. They won't spend anything in cleaning or drying the kapas because the more impure the cotton, the more the weight and the more money they will get for it

4241 In the same way, the outlivator has no inducement in any way to pick his lapas separately and offer good lapas to the gimeries separately because the gimer pays the same price for good, and in different lapas. If the factory owner were to go to the market and pay for a cart containing better quality Rs 13 and for carts containing lower qualities Rs 12 8 or Rs 11, the cultivator would see that it was to his

interest to pick his kapas separately and to keep it separately
4242 Apart from personal efforts by members of the Department, I should say that if the work of the factory owners were regulated by some land of legislation or other, co operation would come by itself present, the cultivators buy most of their seed from the factory owners and if the factory owner were com pelled to select the lapas, the seed of which he was going to sell to the cultivators for sowing his co operation on this score would be complete I do not think it is against the interest of the factory owner to try and do some seed selection, because he would be the first man to benefit from it A good deal of mixing, both intentional and unintentional, takes places in the ginning factories It is the nuntentional that could be very well prevented by taking contain steps recommended in my written evidence
4243 (President) It would be a great stimulus to the extension of cotton like 4F and Sind American,

if there was a standard trade mark for it on which it could be sold in the Liverpool market on the basis of The thing is that there must be some standard so that a new cotton can establish a type quoted in India You eannot merely offer the buyer at home Sind American or Punjab American, a quality itself with the trade which he has not seen before He must see a sample, and try it, he must be certain of what he buys and as to the quality that he will get A new cotton has therefore to establish its market. The present time is very to the quality that he will get The present time is very favourable for getting to a standard, owing to the difficulties of freight, very little American cotton is coming Indian mills have been buying Punjab American largely and naturally it will establish itself

4244 As to forecasts, I find that they are fairly rehable We make very elaborate ones ourselves, the difficulty is that we have not got the same distribution of districts as Government and it is therefore very difficult to compare our figures with those of Government The Government forceasts are fairly accurate for the districts I have been able to check The dates of publication are fairly suitable from the trade point

4245 As to the returns from gins and presses, I consider them very necessary as, if they were complete, they would enable the trade to get an accurate idea of the crop—I think that submission should be made compulsory They do not entul any extra expense or trouble to the factory owners. They have got their figures and all they have to do is to total them up and send them. I would have submission made compulsory They have got their

by legislation.

4246 (Mr Wadia) As to classification and whether I would suggest that Sind should be separated from the Punjab for the purpose of classification in Bombay, I have no experience of what is done in Bombay In the matter of classification, as long as there is the Cotton Trade Association in Bombay, every seller and In the matter of classification, as long as there is the cotton Trade Association and the difficulty is overcome buyer can refer any dispute about classification to the Cotton Trade Association and the difficulty is overcome.

Whether you because each side is bound to get the right valuation of the cotton whatever the quality is call it Sind Punjab or anything else, it comes to the same thing as long as you get the right amount of money for the cotton. The trade have a good deal of faith in the Bombay Cotton Trade Association. If pure American cotton is sent to Bombay, I would suggest separate classification. I think that the arbitration rules of the Bombay Cotton Trade Association work fairly both to the buyer and the seller. I am aware of the clause which gives the biver the option when the final award for inferiority of quality is in excess of Rs 5 per I handi either to take the cotton at the allowance fixed or to refuse it. Take a case in which a mill or per I hands either to take the cotton at the allowance fixed or to refuse it a buyer mal c3 a forward continet for so many bales of Sind Punjab fine, when the cotton is tended for delivery in Bombay, if the arbitrators fix more than Rs 5 allowance for inferiority of quality, the mill or buyer would have the option of either tal mg the cotton with that allowance or of rejecting it. If the mill or but, the seller has always the option of reselling to some one else on the actual ments of the cotton If the null or buyer rejects arguments that he does not suffer because he can always dispose of the cotton, I should say that he is hable to suffer because in the mands or market the rate might be quite different and much lower at the time tion of this nature is to be afforded to buyers, why not have it for every body? You must not protect the The same rule must apply to all three, gin owner, seller and millowner, and must be here. If a millowner buys a certain class of cotton, he does not want to get anything applicable everywhere below that, because for the class of goods that he wants to turn out, he cannot permit any lower quality to be tendered so, he stipulates in his contract that he must get "fine" If it is below that class by more than Rs 5, he refuses it and then the seller in his turn must have the option, if the ginner tendered to him cotton more than Rs 5 lower than "fine" (if the contract is for "fine") to reject it also. It is the business of the ginning factory owners to know what will be the quality he will turn out and to sell accordingly I do not favour a set of arbitrators at up country markets. Factory owners may want their monoy at once but in that case, they can always get eighty per cent of it on the railway receipt and the difference after the final award of arbitration. If this system of selling on quality is established, the cultivator will eventually get a better price and so will the factory owner who sells the cotton cultivator will also be taught to keep his stuff cleaner

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1apas There is very little accommodation in all the fretories. As a matter of fret, we have no factories with proper all round arrangements in the Punjab. The only cotton dried in the factories is cotton that the factory owner is afra d may rot. Kapas is put anywhere in the factories even in places where coal has been previously thrown. The lapas is thrown there and left. Large platforms should be constructed. There is great difficulty in ginning damp lapas. The first year I was at Mirpuil has, the rains were exceptionally heavy, and the whole place was flooded for days and the lapas that we had in the factory get badly damaged. Although the gins next year turned out six to seven maunds of lint a day, we could not gin three maunds that year on account of the dampness of the cotton. It does not pay to dry it because it loses in weight. There is no deliberate damping, so far as I am aware except in a few cases in Jullundur where lapas is brought in deliberately damped. In other places they throw a little water on the ground to lay the dust and then put the lapas on it. All over the Punjab, lapas is brought in loose, in eart loads. Small quantities are brought in gunnies or boras on donkeys.

4248 The best class of lapas coming into the market should be picked out and made a separate quality Different pickings of the cotton are mixed together at present—the first pickings are very often very inferior whilst the second and third pickings are as a rule of the very best quality—If the first pickings were kept separate, and the second and third pickings are as a rule of the very best quality—If the first pickings were kept separate, and the second and third pickings is e, the best part of the erop, were kept separate and also the fourth and last pickings, which are also inferior, naturally there would be two different qualities—one consisting of the first and last and one of the middle pickings. The latter would be better in class, in strength, in staple and in every way. That is what I meant by selection—It is not done now. The pickings are not brought in separately because the cultivator knows that he will get the same price for all his lapas. He keeps his first pickings back and mixes them with the others. This year heavy rains in October damaged the lapas. Arrivals were later than usual because all the cultivators lept all the bad lapas back in order to mix it with the better lapas of latter pickings and sell it at the same price.

4249 There is a great deal of mixing of American and deshi cotton in Lyallpur. I was only in Lyallpur for a year but during that time I often went with Mr. Roberts to the factories and we tried to find out the exact percentage of American cotton in the cotton which was called American. It is very difficult to say, I do not think there is any expert who would find out the exact percentage from the cotton itself. You can only say it is not pure American. It pays the factory owners to mix oven if the mixture contains fifty per cent of deshi. This mixing is due first of all to the trader who does not give the necessary encouragement to gin ning factory owners. The first thing to be done to put a stop to this adulteration is to regulate the work of the factory owner. The ginning factories are to blame but the trade is also to blame because they do not buy on a certain guarantee of purity and quality in order to induce the ginners to improve their quality. If the factory owner knew that he had to deliver a certain class or to pay a penalty, then he would turn out that class. The arbitration rules in Bombay should be made applicable to ginning factories in the mojussil so that they should sell on a certain quality and not sell blindly on the fair average quality of the crop. Cotton should be sold on mutual allowances. If the seller delivers better cotton, he should get a better price and if he delivers inferior, he should receive so much less for delivering a lower quality.

4250 I think licensing would be the best method of exoreising control over ginning factories. I think this should be done by legislation. No factory should be allowed to be put up or worked unless it had a license. I know that there was a Cotton Frauds Act in Bombay which had to be repealed principally on account of abuses of the staff employed to work it. It is very very difficult to give an opinion as to how to prevent undesirable people being employed to earry out the work. Rist's have always to be run in matters of this kind. All the heads of Departments in a place where a factory is situated, for instance the Deputy Commissioner and the Deputy Superintendent of Polico might be exofficio inspectors of factories. I would go so far as even to have a few honorary inspectors like the agents of European firms who have experience in the line. There might be trade jealousy on account of this, but you could not very well avoid that. I think licenses should be granted by the Commissioner of the Division and not by a central body. It will be the buyer's duty to bring any irregularities to the notice of the authorities.

4251 I do not think that each bale should be marked on the flat of the bale with the name of the ginning factory. Buyers buy cotton from different gining factories in a loose condition and then have it pressed and they very often mix two lots together to make a uniform quality. Suppose they get from one factory cotton a little lugher than "fine," and from another cotton a little lower than "fine," they mix both to make "fine" out of it. In Bombry and Karrelin they do not know from which factory the cotton has come. I do not think that I would advocate that, as a condition of license for a pressing factory, the name of the station should be marked on the bales. I do not think it is necessary

4252 As I said just now, there is not a press attached to every ginning factory. The buyers will be the people who will bring any irregularities to the notice of the authorities. The authorities must visit factories from time to time and see what is going on. You cannot control the factories from head quarters when cotton goes to Bombas. You must control the factories at the time they are doing the work. It is no use trying to put them right after they have done their work. If the factory owner does anything against the regulations, his hierose should be suspended and ho will be very careful in future not to repeat the offence. I would have the heense suspended according to the nature of the offence.

have the heense suspended according to the nature of the offence
4253 In my written evidence, I have suggested the construction of small lattice work platforms iden is that there always is a lot of dry leaf and dust adhering to kapas when it is carried into the factory If it is shaken off from these lapas platforms, the leaf will go through the lattice work and the lapas will go oleaner to the gin As a matter of fact, there are such platforms in Sind The mesh should be such that tho Lapas will not fall through—say about a quarter of an inch. The Lapas platforms are narrow in all ginneries. I should think that the bigger they are the better. The minimum should be about eight to nine feet, because what happens is this lapas is piled on the platform late at night and early in the morning to keep the factory working during the day time and to have enough to start it at 5 o'clock in the morning piled up to such an extent that it falls over the gin into the space where the cotton falls between the two lines of gins. As to the lint platform between the two gins, the bigger it is the better. We have not tried the boards, suggested in my written evidence, in our factories That is a simple contrivance, and I think it a very The board should be made removable so that it would not interfere with the setting of the knives of the gins As to the lattice I have suggested in front of the gins, half an inch mesh I think would do Cotten would not fall throughout We have tried some of the automatic feeders and they were not succesful

Punjab]]

Mr F G MILIADIS

4251 Some factories are very badly lighted. Even where there is electric light, the light is very bad There are not many lights and the dust is allowed to recumulate on the lamps

4255 I do not think that the speed at which tho gin is worled has any thing to do with the quality of the cotton, especially in Sind What effects the quality of the cotton is the speed at which the roller works and not that of the knives Gms of all factories are not regulated at the same speed. The knives are sometimes regulated so as to allow crushed seeds to go through. It is difficult even for small leaves to got through. The dameter of the roller is not always the same, owing It is difficult even for small leaves to got through The diameter of the coller is not always the same, owing to the leather wearing out Small diameter rollers are, of course, against the interest of the factory owners The smaller the roller, the less the outturn of the gin

4256 In the Punjab wherever there are pools they are of two kinds. In one kind of pools they fix the rate of ginning and pressing at a certain rate. They also fix their cost of pressing and ginning at a certain rate The difference between the rates is distributed among the members of the pool recording to the greater or smaller number of gins they have get All that naturally has to come out of the price they pay for kapas, and make the price of lapas so much lower In the other kind of pools, the ginning price is fixed at a cortain and make the price of lapas so much lower. In the other kind of pools, the timing price is fixed at a certain figure and every one who buys lapas has to pay into the pool eight annus or four annus per maind of lapas he buys. They do not regulate their pool profits in this case according to the price of ginning or the price of pressing but according to the quantity of lapas bought from every maind. This kind of pool fixes the price to be paid for lapas in maindi daily. The natural result of the pools is that there are more factories than there is work for. Ginning factories are often put up simply with the object of sharing in the profits of pools. Every body who has a few thousand rupces and wants to myest it whether he be a pleader or a doctor, puts up a gunning factory to share in the profits of the pool whether he works the factory or not I do not think it is necessary to make it a condition of a liceuse that gimeries should work it least a couple of months or so I suggest that pools should be abelished by legislation on the lines of the Trust Laws in America

4257 (Mr Hodgkinson) It should be the same thing whether the gas work for themselves or on commis The person who holds the beense should be responsible whether he works on his own account or for There should be a standard plan for a model gaming factory It would not be very difficult anybody else to get one of the engineers who has got experience in that line to di in up a pl in

258 (Mr. Roberts) I have heard there was a plan in print drawn up by Mr. Brooker. I have seen a specific curry market a certain part of the Lapas platform of the factory. That was in Sind in one contrivance for carrying lapses to a cort un part of the lapse platform of the factory of the native factories—Pillimall Tawardies. The Lapis was carried by an elevator to the platform into the factory and from there distributed

Mr. F. G MILIADIS, Agent, Messrs Ralli Brothers, Lyallpur

LEAMINED OF LEALLIUR, JUNUARY 11TH, 1918

Written statement

II -COMMERCIAL ASIFOT

4259 (30) Local trade customers — The kapas is principally sold by the zamindars to the village banias who after taking ilelivery in the villages bring it to the gining centres for sale through the middlemen (commission agents). The village brings receive advances from their commission agents, which the former distribute to the zamindus, thus binding them for the sale of their products at rates fixed at the time. There is very little or practically no contracts business on lapas in the mandis in the Chenab colony 4260 (31) Standardization of commercial names—There are no commercial names for the various

grades Sofar as the local markets are concerned, samply they sell cotton at higher and lower prices according to the differences in quality. This is the position in this colony. Of course, the commercial names could be standardized if they introduced standard classes for the various qualities.

1261 (32) Buying agencies — The best form of buying would have been if the zamindars could be induced or in some other way helped not to depend on the banias for the marketing of their produce but to bring the stuff themselves in to the mandis and sell it at the market values of the day which would have been profitable to them and the tride generally. By this way there will also be general improvement in the quality of both deshi and American is the bania is the chief cause of adulteration

III -STATISTICAL

4262 (33) Improvement of cotton forecast -The final forecast in this colony is as near accurate as Closer and stricter supervision from the part of the can'd and revenue officials would minimize any

possible differences

4263 (34) Improvement of other statistical information —Press returns cannot give fall information to meet statistical purposes is cotton is also desprehed in loose condition to other districts. In 1914, the quantities so desputched to Gujat, Jhelim, Rawalpindi, Koh it, Binni, etc., were fauly large, and unless these are taken into account the statistical records cannot be complete and rehable. We would suggest these are taken into account the statistical records caunot be complete and rehable. We would suggest the railway despatches of pressed as well as loose cotton (of course, loose cotton despatched to other places of the district for pressing to be excluded) would give accurate information
4264. (35) Publication of Liverpool and Bombay prices —Information is duly received here by the factory

owners and other dealers Of course, it will be useful if such information was conveyed also to the

zamındars

4

Mr 1 G MILIADIS called and examined

4265 (Mr Wadia) I have been at Lyallpur for eleven years, and in the Punjab for seventeen years Until the introduction of Ly allpur American cotton, I purchased mo thy deshi cotton. This year my purchases have been from 75 to 80 per cent of American but not at the Government auctions. The dechi cotton from Gojra and Toba Tek Singh was a better staple cotton than that from Lyallpur itself or from Sangala There is practically little of it left now Now the production at Gojra is twelve to thirteen aunas American In Lyallpur, it is four annas desh; and the rest is American I am talking of the Chenab colony except Toba Tel Singh where it is about eight to mine annas American

[Continued

Punjab]

4266 Thore we no commercial classes of cotton in the Punjab Of course, a higher price is demanded better cotton and a lower price for inferior classes If it is agreed that I should pay at the rate of Rs 20 for better cotton and a lower price for inferior classes for white cotton and I am given a lower class of cotton, or cotton with leaf or mixed with seed, I would pay a reduced rate, say Rs 18 Deshi cotton is not bought on staple In a good year, the staple of Goyra and Toha Tel. Singh cotton would be 38ths to 716ths of in inch.

That is a good staple for deshi cotton with leaf or mixed with seed, I would pay a reduced rate, say Rs 18 Deshi cotton in inch.

That is a good staple for deshi cotton. This class of cotton is mostly sold under the name of Sind Punjah in Bombay and Karachi of fact, there are no commercial classes in this part of the country. You may buy Toba Tel. Gojra cotton at the same price as Lyallpui. The price may depend on financial arrangements You may buy Toba Tel. Singh and is the centre of the colony and a native may pay here a far higher price for an inferior quality than for a better quality at Gojra or Toba Tek Singh Conditions at Lyallpur are better than at Joba Ick Singh or

4267 I see the Bombay quotations every day and these do the factory owners Department has made arrangements to publish the quotations everywhere in the colony. I think the quotations posted in the markets are a little bit too high. The factory owners' quotations are on the hasis of Bengals.

They guide themselves on the basis of Bengals.

4268 Multan cotton has a hetter reputation simply hearuse that district is more fit for producing a good quality of cotton, the chiate is drier and the kapas is therefore cleaner than it is here, especially north of Lyallpur The variety is different and the cotton is silkier at Dean Ghazi Khan There were no gins there fifteen vers ago and the cotton was all churka (hand ginned) of fine superior class the railway freshties there, enable the gimners to bring lapas from other districts and mix it with real Multan up to fifty per east and the cotton is sold as Multan. There is very little pure Multan cotton now a days It is mixed with other varieties. American eotton is a good deshi cotton. There are varieties of cotton coming from Sahrranpur and other places which are also quite good cottons. The days of deshi cotton are over in this colony. In two or thice years, there will be no deshi left. As regards the cultivation of American cotton in Multan, it depends on irrigation—they must have perennial canals to grow the American type—American would do very well there, especially at Dera Ghazi Khan—Tho Shahpur district would he another good centro of American cotton—I think that, in the Hissar district, the cultivators will always give preference to wheat owing to high prices for Rajputana. The prices of cotton will always be high but the present prices are abnormal. I believe that, in the Multan district, cotton could be extended under the Sidhna canal and in other places

4269 I think that 4F is quite a good cotton but I profer the previous American various They were more silky and longer in staple. Of course, 4F stands climatic conditions better, it is a good

4270 I would suggest that mixing should be stopped and the only way to stop it is to because the factorics. It is in the interest of the spinner of the zamindar and of the factory owner that it should be stopped. If you become the factories, I am certain that adulteration can be stopped

within two or three months

within two or three months
4271 The reason why I prefer other American varioties to 4F is that they have a longer and
sliker staple. The staple of 4F in the Cronab Colony is 34ths or perhaps 78ths of an inch. If you
take 78ths of an inch as an average, it is a good staple. The predominant seed is now 4F but three
or four years ago other varieties were grown. There was a variety which had a small seed which, I
believe, was Memphis Missisippi. It was very long in staple and very silky. 4F is rougher, it is
not as silky as the other varieties but stands the chimatic conditions better. You cannot get pure 4F.
In some places it is less mixed but contains two or three per cent of another variety. The bulk of In some places it is less mixed hut contains two or three per cent of another variety. The bulk of American cotton now is 4F type. I do not buy as 4F. I buy American which is mixed with other varieties of American seed. In Montgomory, the 4F is more or less pure but not in this colony. It is a very difficult thing to make a selection of pure 4F. They market it as 4F but of course there are different types of seed mixed in it. One American is quite a different thing from another American, and therefore selection is uneven. The higher class depends on the weather and the watering of the fields. I can show you pine American which one would think contained ten per cent of desh though that is not the case It is because it is pool lapas. When I send such cotton to Bombay or Karacli, I send it as American mixture. When deshi cotton is selling at the price of Rs 510 the price of American with a mixture of about five per cent deshi would under normal conditions be about Rs 500 at least so far as this market is concerned. I do not think that you would get that price in Bombay.

4272 As regards the marketing of cotton, as stated in my written evidence, the zamindars depend These bamas, who are called aratyas advance money to the zamindars. The zamindars besides paying interest on the money advanced are also bound to sell their cotten through them sometimes these people speculate, they buy the crop on the ground. If the zamindars could be induced to hring their kapas direct to the open mands when the crop is ready and get rid of the middlemen they would realize much better prices and it would be much better for them and for us. The middleman, they would realize much letter prices and it would be much better for them and for us banias do not fix the price of cotton when they advance more money except when they buy the crop forward I cannot say whether, in the case of forward buying, the zamindars get the proper place of the day but now that the crop has begun to move, he g to the price more or less. The aralyas bring the kapas to the ginning factories. They sell the cotton to the factory owners or to others. Owing to the advances, the zamindars recovered from the arrives they are tried large. They receive from the aratyas, they are tied down. This could probably be got iid of by some system of cooperative banks or something of thick hand. In this colony, some very good zamindars are not dependent
on the aratyas. The zamindars here are more prosperous than in my other district in India. In spite of this, it is their custom to isk for advances. If the Government collected the assessment two months later, the same thing would go on They are always in deht. It is very difficult to stop the middlemen altogether in India

It would take years and years No carts are sold direct by the zamindars all are sold through araiyas 4273 No gaming factories work on commission. They all buy and sell on their own account to the difficulties of restaurants. to the difficulties of railway freights due to the searcity of waggons, they are selling now locally but before the waggons difficulty, I should say two thirds of them used to send cotton ducet to Bombay and Karachi They have a lot of bunking facilities and they get three quarters of the value of the cotton on

the railway receipt

4274 My experience of the Government auction sales is very good as the zamindars get the highest possible price. The prices are at times higher than the Bomhay and Liverpool prices. The prices at the auctions are not a criterion of the price ruling during the day as there is a good deal of jealousy between factory owners who raise the price. The factory owners do not work on a sound basis. They buy expecting higher prices tomorrow Suppose this higher price is not realized, the buyer buys deshi and mixes it to reduce the cost of the American He can always reduce the cost of his cotton by mixing deshi

4275 The American lapas that comes in in this colony is badly watered watering during the last two years. There is no watering by factory owners. The There has been much The zamin lars water tho ground vory badly and then they collect the Lapis and put it on the wet ground and then they remove it to the earts. This should be stopped. When the American kapas has been watered to this extent, it spoils the brilhancy of the colour and the stuple. It takes several weeks to dry it thoroughly. This can easily be stopped. It is not due to picking in the early morning. Picking begins at 10 o'clock. American kapas is damper than deshi but for the last two years, it has been overwatered. It is the zamindars who do it, not the factory owners It is all nonsense to say that cotton gets wetowing to picking in the early morning I would suggest the stoppage of watering by penalising it in the various mandis (markets) I think the Deputy Commissioner could very easily do that by informing the chaudhris (market authorities) that any cart that come in containing unnatural dampuess would be heavily penalised. At Tandran willa, the damping amounts to as much as seventeen to eighteeu per cent in some earts The top is fairly dry but when you put your hand into it, you find that it is damp. That spoils the brilliancy of the cotton entirely. If the cuts are unloaded when they come in, it is quite all right but, if not, the cotton gets formanted. Cotton seed is in oil seed and it is bound to ferminit if damped and, after forment titon, the hat become yellow I have seen lapas damped by run owing to not being covered by a turpaulin and formenting after three or four days. The mixing and the watering of lapas can be stopped very easily I have been informed that the Sikh zamindars do not damp but that the Muhammadan zamindars do so, especially the janglis of this colony

4276 When American cotton was first introduced in this colony, American and deshi were mixed in the fields but now you will hardly find a field of American cotton containing more than one or two per cent of deshi. The mixture takes place in the factories and the American kapas that come, in from the villages comes in pure The greatest mixture you will find is less than 11 per cent. The ginneries mix thirty five to forty per cent In the beginning of this season, the mixture was about fifteen to eighteen per cent The buyers understand Punjab American better than they used to do and they are more exception of I believe the best way to provent univing is to hoose the factories and fix a penalty. There is no necessity to mix deshi with American in order to improve the colour if the American is properly dried. You will find heaps of deshi action lying in the compounds of the factories for ten to fifteen days before it is ginned whilst American is ginned inimoduately on arrival because otherwise it would lose weight. If American lapas were dried more, there would not boso much leaf in it American cotton is always leafy on account of its dampness. The gins also are not quite fit for American lapas. There is always a cry of cut seed. As a matter of fact American lapas is better in colour than desh, but the cultivator spoils it by watering The ginners find it difficult to gin wet kap is When buying wet cotton, they do make a deduction on account of dampness. The only way to stop deliberate mixing is by licensing the factories. The inspections under the licensing system could be done by the local authorities. If once or twice a week, a man were sent to factories where mixing is done, they could easily detect it especially at night, before the seed is removed from the factories and they could see the percentage of deshi. Once the factory owners know that the inspectors are after them they will stop ining, although I believe that, in the course of the next two or three years there will not be any deshi to be mixed in this district. If there were some control, it would be better, otherwise people are free to do anything they like. The withdrawal of the hiense would be be better, otherwise people are free to do anything they like. The withdrawal of the heense would be quite enough. As to the suggestion that there should be a central committee in Bombay to control the heensing, I do not see how Bombay can control Lyallpu. Licansing should apply to the pressing factories also. No mixing is done by the pressing fectories after cotton has been ginued. Guined deshi and ginned American cotton cannot be mixed. The mixture takes places before ginning. If ginned deshi cotton is mixed with ginned American, it can be detected numediately. As to cotton being brought in Lyallpur and sont to Karachi or Bombay with the Multun mark, I personally would not buy cotton because the balo was marked Multan. I should buy it on its ment. If heening were introdued, I would certainly make it compulsory that every bale should bear the name of the station and the name of the pressing factory. This can be done, I do not see any difficulty about it.

4277 I would not suggest a separate classification for Punjab American separate from Punjab Sind So far as I know there is no class here. Of course the Amorican is a class by itself so far as the staple is concerned. As to how it should be classified if that is necessary, that is entirely for the Bombay and Karachi markets to decide

4278 (Mr Hodglinson) The actual damping is done by the zamindars. The lapas is damped after The ground is natered three or four times and the lapas is put on it and left there for a it has been picked I have had no experience of saw gins

4279 There were three or four saw guis here in Jurunwala which my firm brought but 4 F has not been ginied in them. I know the owner guined some deshi cotton three years ago in saw guis and despatched it to Bombay but could not sell it there

4280 The prices obtained for American cotton at the Government auctions are too high prices are not altogether due to the fact that the cotton is subsequently mixed. A good exporter would

The bulk of the cotton is marketed in open mandie

4281 (Mr Henderson) I have been to America I was there for five or six years Calverton, Houston, Texas Houston is a staple district I did not work in Mississippi I worked m Augusta, Georgia A lot of Mississippi cotton goes through Augusta to Mobile and Charleston I have not seen cotton in America as good as Egyptian The American mills use very high class cotton and so far as I know they import Egyptian cotton every year up to 150,000 bales. If they could grow such cotton, there would be no necessity to import Egyptian cotton. This import has not taken place during the last two years. It has been going on since 1894 and 1895 when I was in America. Cheroni Benaki is the name of the exporting firm It had a branch firm at Boston

4282 Cotton improves as one goes south of Lyallpur American would do very well in the Multan district and in Dera Ghazi Khan South of Multan up to Shujabad and Bahawalpur, it would be far superior to Lyallpui Of course, that depends upon irrigation. As to whether there has been any deterioration in 4F, during the last four years this year's cotton is not as good as it was last year. This is not due to deterioration, but to unfavourable chimatic conditions. I behave the area of American Pun_1ab

Mr J C EVANGELINIDI

cotton in the three colonies, viz, Chenab, Lower Bari Doub and Jhalum, this year will be 200,000 to 240,000 acres Next year the area will be larger on account of the high prices this year

4283 The Irrigation Department never report their conals in time for early waterings always do it in the winter and be ready to distribute the water cirly in April or by the end of March

should not leave the canals for repairs till Mirch. American coften must be sown before deshi4284. As to seed distribution, people are more anxious to get American seed than they were four or
five years ago. So far as this colony is concerned. I do not think it possible to improve the pre-ent
system of distributing seed. You can get thousands of in units of practically pure American cotton

with not more than two per cent deshi which is good enough
4285 (Mr Roberts) I have seen a good deal of American cotton in the field. The field, I should say, is a mainds per acre or perhaps five and three quarters on an average. American compares very favour ably with deshi. This year has been a bad vear. I put my last estimate at 53 to six mainds per acre. The deshi is far below this owing to the very unfavourable climatic conditions in November and up to the middle of December last. In every way, the American has one better than the deshi. It is a minch safer error. It has been safer for the last two or three years. These been last two or three years. erop It has been safer for the last two or three years. I have been here since 1908. I have seen the American grown in this colony since then It was then on a small real. The zamin lar does not care now for itesla. They all want American in this colony. I believe, in the Jhelium colony, it has stood chimatic conditions better and the yield is better

4286 It is difficult to say whether the zamindars prifer cotton to wheat . Wheat 14, as you know a favourite crop of the zamindar, he does not forget his fodder but, of course totton comes next. It will gradually take the place of toria. With the present prices of Rs. 19 to 21 of Lapar, I believe next year the sourness of cotton will be mere seed by 25 per cent provided of a surse there are showers in the beginning

or end of March and plenty of canal water

4287 I do not know why Suid and Punjab are classified together. They are quite different in style Sind is a better cotton than research, and the staple of the Punjab deshi is better. Sind cotton is very

4288 There is no doubt that the sellers of cotton here are encouraged to produce a good quality is the buyer's interest to have a higher class. If you give him a superior cotton, he will give you a superior price. The ginning factories are now beginning to recognise this. There has been an improvement in this direction. Though the zamin large much in the hands of the bring, there is very little forward selling, especially of lapas. It is a different thing to be abliged to sell cotton through a boing and to sell it direct. There is much less mixing than in the past. It has improved. I have been told that in Bombay American cotton which was considered pure realised Rs. 550 and that American rotton mixed with thirty per cent deshi realised the same price, but I consider this impossible. I live per cent might example

detection but not thirty per cent

4289 (President) As to the cotton forecasts, I will confine my remarks to this province forecast here is more or less necurate so far as the area is concerned. Non exerciting depends of Non-everything depends on the estimate of yield. There is a great difference between our yield and that of Government. Our yield frequently differs from Government by forty per cent. The Government estimate is always too low. Our results are accurate. It would be quite easy to get an accurate estimate if the Tahaildar and other revenue officials were compelled to be more accurate in their estimates of yield. Take the Livallpur district, there are 150,000 acres under American and deshi cotton. That is the Government figure as well as our estimate. I make my estimate of the crop of the I vallpur district on the basis of a calculation at 53 mainds per acre at 57,000 bales of which 48,000 bales are American. If you ask the cultivators, they will tell you the outturn is only 31 mainds to four mainds per acre. These Tabsiblars form their opinion accordingly

4200. I do not consider the pressing returns very patisfactors at present. It would be a good thing to make them compulsory by legislation, but care must be taken to melude cotton coming in to a district to be ginned and to exclude cotton foing out Suppose I buy loose cotton I have my own press at Jhumra and I do not want to press it here I send it from Lyallpur to Chak Jhumra. This should not be

included twice over in the production of the ilistrict

4201 The fancy price which Mr Roberts got at his anctions has got something to do with the guarantee given that it is pure. There is also pure American cotton to be got outside of the auctions exporter of American cotton, I am anxious that American cotton should be pushed in the Punjab Multan is a good place in which to push it Shahpur is also a good district. I believe that in time there will be sufficient production to get a quotation on the Liverpool market. As a matter of fact, this would already has a been done had it not been for the war. If the price of deshi is high, the price of American will also be high. As to the premium of American over deshi, I believe the present price of American is rather too high. This is due to the war and the failure of the crop everywhere all over India owing to horvy rainfall. As a rough figure, I should say that the premium is Rs 6 to 7 per maunid of cotton at present. Rs 70 per khandi would be a fair average over deshi cotton. This year it is more. I have noticed a deterioration in the yield of cotton during the last ten years. When I came here cleaven years ago at was quite high. It was fourteen to fifteen maineds per acre of wheat and 74 and even 84 per acre of cotton. The land is getting exhausted and there is very little manure. I used to estimate my cotton crop at 8 to 84 maineds. In 1912-13, the weather conditions were ideal but the crop of cotton was only 61 to 7 maunds per acre

Mr J. C EVANGELINIDI, Agent, Messrs Ralli Brothers, Lyallpur.

EYAMINED AT LYAITFUR, JANUARY 11TH, 1918

Written elatement

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II —Coumercial Aspect

4202 (30) Local trade customs -The local customs regarding the marketing and selling of the Lapas vary almost in each market in the Multan District, and may be summarised as follows

(a) Zamindars bring their stuff and sell it in the mand, through a commission agent, very few sell then products themselves

- (b) Village banias sell lapas in the mands personally or through a commission agent for account of
- (c) Factory owners buy lapas in villages from zamindars and village banias and take delivery of the stuff locally or at the nearest railway station
- (d) Before the crop is matured, factory owners and speculators buy lapas at a fixed rate from zamindars and village banias, the seller generally receiving an advance of about Re 1 per maund of lapas

4293 (31) Standardization of Commercial names —The various grades of cetton are known locally as "American," "deshi" and "churka" Of course the firms have their own classes for the various qualities of cotton and pay their prices accordingly. It is difficult to suggest any means by which the commercial names could be standardized, as zamindars and the majority of the cotton sellers are ignorant of the various qualities of cotton

4294 (32) Buying agencies —The zamindars should be encouraged to deal direct with the buyer, without the interference of the middleman, who simply lives on the former Also the system in vogue in many markets to soll kapas on a certain basis of lint, any difference over or under the basis to be mutually recovered, should, for obvious reasons, be abelished

II -STATISTICAL

4295 (34) Improvement of statistical information —Cotton press returns could not be relied upon for statistical purposes as loose cotton and lapas sent from one district to another will not figure in them Railway roturns showing the quantity of cotton (loose or pressed), and lapas despatched to and from other districts would give accurate information

4296 (35) Publication of Liverpool and Bombay prices—I ocal traders receive daily telegrams from Bombay and Karachi regarding the prices of cotton and besides the rates offered by buyers are known to

MR J C EVANGELINIDI callod and examined

4297 (Mr Wadia) I have been at Multan as well as in Sind There are different kinds of cotton in each market but, on the whole, the system of marketing is much the same as Mr Miliadis has described for Lyallpur There is more forward buying. The buyer makes advances to the zamindar and fixes the price. For forward purchases, the price is always fixed. Any change in the price later on affects the buyer of the cetton and not the seller. Fither by mixing or by letting in crushed seed in the cotton or leaving lapas in it, the ginner protects himself against lose

4298 I have no experience of damping in Multan My experience of American lapas is that it absorbs nuch more moisture than deshi lapas. As the earts travel at night, especially at this time of the year, the kapas absorbs much dow in it. There is no actual watering in the ginning factories, none at all

4299 Mixing is done entirely in the ginning factories. Last year they did not do it much in Multan this year I have noticed none in Lyallpur during my short stay. They used to do a lot. They used and this year I have noticed none in Lyallpur during my short stay to import deshi lapas from Montgomery and mix it with the Multan deshi lapas which is a superior cotton Multan deshi cotton always commands a higher price. It is very difficult to give any opinion in regard to mixing. The best thing would be if the buyers penalised it. Legislation would improve matters to a certain extent but the remedy remains entirely with the buyer. If the buyer penalised any mixed lot, it would be stopped as it has already been stopped in the case of American cotton. They do not mix the lint. They mix the lapas and after ginning it they sell the mixed lint. That mixture should be penalised. They do not mix the The Bombay buyers should penalise more heavily than they are doing now If the buyers are ready to buy these mixed lots, then factory owners will not stop mixing People realize now that for a less mixture of deshi in America they get so much better price and there are many more buyers of pure cotton There is a marked difference this year On the whole, I consider legislation necessary than for mixed lots It should be accompanied by the licensing both of ginning and pressing factories, one must go with the other The penalty of withdrawal of the license would be quite enough, or a temporary closing of the factory

4300 Kapas is taken from one district to another It is not always done for the purpose of mixing In some places they do it, because hy doing so they ean get better rates It is transported both hy rail and It depends on which is cheaper At present it is done by carts because there are no railway also by carts wagons available It is transported to a distance of say twonty to thirty miles by road By railway they used to transport lapas from Sargodha to Kasur It is not advisable that railways should make a rule prohi This would, I think, biting the transport of cotton from one place to another except in fully pressed bales interfere with trade. There may not be enough guineries provided in a particular place. There may not be a ginning pool in a particular district or people may bring in their deshi lapas there for the purpose of It is difficult to say whether lapas is exported from one district mixing with deshi to iniprove the quality to another to improve the quality or to deteriorate it in some cases you improve the quality and in some cases you deteriorate it. It might be that cotton might be exported from one place to another simply for sale as it was, because in such a case the market is the same even without any mixing being done pay a man in Multan to bring either American or deshi kapas from Montgomery, gin it pure and sell it at Multan, because the Montgomery man may not want to take risks. There are men who do not want to speculate I do not think that it would be advantageous for the whole of India to have transport by rail prohibited. I think it helps the trade if lapas is transported from one district to another. It is already done hy carts and there is no reason why it should not be done by railways provided, of course there is no mixing. The mixing is done by the factory owners in the factories and if that were provented, it is of no consequence whether kapas is transported from one district to another provided it is ginned

separately Legislation to control ginning factories is all that is necessary

4301 (Mr Hodgl inson) I have no experience of saw ging I have seen only one in Mirpurkhas The
Agricultural Department had a saw gin when Mr Henderson was in Mirpurkhas It ginned American As far as I can remember, the American cotton there was superior to the one There was only a small quantity We sent about twenty bales to Liverpeel and cetton grown at Mirpurkhas that we have here, 4 F

that got a good valuation They have been jut up a line I do not think they have 4302 (Mr Henderson) There are some saw gins at Nawabshah The Nawabshah by my firm to gin American Lapas bought from the Montgomery line

been able to work them yet because they could not get the lapas ruled down 4303 I consider that Sind is more suitable for cotton growing than the Pun ah

The seil and chimate yers suitable and the cultivators grow nothing but cotton. They grow very little wheat or other are very suitable and the cultivators grow nothing but cotton

M₁ A J W KITCHIN CIE, ICS

I know Nawabshah very well The cotton there is all under mundation canals They sow the cotton furly late It depends entirely on the carals, they are all inundation canals and if the canals are late, the crops suffer I have not seen any American cotton grown on the inundation canals I do not really remember what the yields are

4304 I bought some American cotton in Mirpurkhas We got a very good appreciation from our It was pure, especially Mr Bhurgri's cotton I do not know whether there was any mixture of deshi in the American cotton there. That was the only lot of American cotton I bought in Mirpurkhas. My prodocessor bought some before my arrival there. What happened afterwards I do not know. Tho price was certainly higher than that of deshi. I cannot remember by how much. Before my arrival in Mirpurkhas, I heard from our agent there that they had also experimented with Egyptian cotton at Mirpurkhas and that American was more successful than Egyptian I do not see why they should not get as good a premium there as they are getting here. The cotton is much cleaner there than it is here on account of the dry climate From what I have seen in Sind, American cotton has grown all right. If a proper premium were paid for this cotton there is no doubt that it would replace desh, provided of course the cultivators got the water in time. The irrigation arrangements should be altered according to the necessities of the crop If the water comes late, there is no time to sow American There is no cultivation of American cotton in Multan because the water supply comes late The zemindars say that they have to sow it much earlier than deshi and unless they have water in time they cannot do it. I have not heard any opinion about its hardiness

4305 I do not think that the Agr cultural Department in Sind had sufficient men to supervise matters As far as I remember, the production in Mirpurklins of deshi cotton was very very inferior and, when Mr Moulakis was our agent there, the Agr cultival Department imported seed which our firm undertook to distribute to selected amindars in order to help to improve the quality. By the importation of this Shakhobit seed the production was very much improved. It was due to that seed chiefly which the zamindar took to immediately. The production of practically the whole area was improved a matter of 50,000 to 55 000 bales. I think there is some room for increasing the staff of the Agricultural Department in Sind but this is hardly my business. Mr Henderson was alone there. I do not think there was enough

staff at the timo

4306 (Mr Roberts) I agree with Mr Mihadis that Multan is more suitable for cotton than the north Punjab and Sind perhaps is still more. The only difficulty, as far as American is concerned, is the provision of water at the time of sowing If the present inundation canals were more safe and more perennial, it would help to a greater extension of American cotton. There are plenty of lands which are not cultivated at all in Sind Lagree with Mr Miliadis that Multan and Sind are quite suitable for American cotton get a much better quality than here

4307 There is not much hand ginned cotton now in the Punjab They used to bring a lot to Multan

from Dera Ghazi Khan but very little is brought now

4308 (President) I agree with Mr Miliadus as regards forecasts. I cannot compare our estimates with Government estimates. We have our estimates on our own information, our estimates are fairly necurate I cannot express any opinion about the Multan district as there are irrigated and unirrigated land

4309 The sinning and press returns should, I think be made compulsory provided of course they include the imports and exports to other districts as suggested in my written ovidence. If they are made compulsory for the whole of India then the other figures would be accurate

Mr A. J W KIICHIN, CI.E, ICS, Deputy Commissioner, Lyallpur

EXAMINED AT LAALLPUR, JANUARY 12TH, 1918

Written statement

4310 Experience -I was Deputy Commissioner of Montgomery, 1898 1901, where much cotton is grown Exotic cotton was then hardly I nown, the activities of the Agricultural Department had not begun and the

boll worm ravages were beginning The experience of those times are now out of date

(2) I was Assistant Settlement Officer, Dera Ismail Khan, and Settlement Officer of Rawalpindi and They are not cotton growing districts I have been Deputy Commissioner of Lyallpur Attock districts and President of the Lower Chenab Agricultural Association since October 1914 to date During this last period I have been in close touch with cotton cultivation and trade — I have not a sufficient technical knowledge of agricultural and arrigation science to form a dofinite constructive policy, but must necessarily confine myself to criticism, suggestion, and co operation I hope for great results from the Cotton Committee in the forma tion of a hopeful, constructive policy, which may secure the approval of Government and the active co operation of district officers and of enlightened zaminders

(3) My ovidence before the Committee must necessarily be of a general character and confined to a few points of general importance On most of the technical points suggested in the list of questions, I feel that

I can give no useful assistance

4311 Mixing of cotton in the field —The mixing of cotton is general As regards mixing in the field, that can be improved by sustained and continuous effort through the Agricultural Associations co operative associations and official assistance Very much remains to be done, but steady progress is being made and y. The condition of the ginning factories deserves the very serious the rate of progress mereases yearly consideration of the Committee

4312 Conditions in the ginning factories -Tho ginning factories in the Lyallpur district are as follows -

Lyallpur Gojra Chak Jhumra Toba Tek Singh Jaranwala Tandianwala

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Mr A J W KITCHIN, CIE, ICS

[Continued

The ginning mills are more than are needed to gin all the cotton produced. To avoid competition, the mills at each place combine into a pool to fix prices and conditions. When a complete pool is formed, two or three only of the factories work and the others remain closed. The metalled roads and other comminications of the district connect villages with the mandis but do not connect mandis with one mother. If a lead of cotton is brought into a ginning factory and a proper price is not offered or if trouble is made over weighing to condition of crop, the owner cannot conveniently take it elsewhere, as all the local factories are in combination and the next mandis is hard to reach. The mandis can hold only very little cotton, so that the local commission agents cannot keep and store cetton for a better market. The weighinents made made the factories with the gates shut and the carts unloaded are a constant source of grievance, which is often very genuine. The weights used are not untrue, but the scales can be loaded and dues demanded. The camindar in his contest with the ginning factory is from the very nature of his commodity at a very scrious disadvanting. The fact is that, to some extent in all tracts, and very especially in the colonies where all land belong to Govern ment, the ginning factories hold a monopoly in the cotton trade. No new factory can be built in the Lyallpur district, because all land accessible to a railway station belongs to Government. When new factories are built, they join the existing rings scories or later. Monopoly should be under control. At present we have monopoly without control, and the ginning factories as at present administered rob the zamindars and must be cotten to the detriment of the cotton trade and of future purity in seed. They are business men in a line of labour, holidays, employment of children, etc. Inspections are necessarily infrequent, district officers and their issistants no longer do inspections, and it pays to break the law and te pay fines when detected. The

The conditions of work in the ginning factories are very bad indeed

(2) At the cotton sales undertaken by the Agricultural Department only to improve the giading and marketing of cotton, it has become liabilitial for the ginning factories not only to boyect the sales, but to attempt actively to prevent cotton sellers from coming in. This is only done to avoid the independent weight ment and controlled conditions which are an essential feature of the sales. It is hardly too much to say that the ginning factories have combined together to obstruct improvement in cotton growing, and inalating, as well as to continue insanitary conditions of employment. There are big firms and individuals of public

spirit who stand apart, but this is the general condition of the ginning inills

4313 Necessity for control and suggestions as to methods—The only remedy is control—the control which is necessitated by the monopolist nature of the ginning trade. The methods of control which I suggest no—

(1) Establishment of cotton markets with ample storage accommodation. This would save the *camindar* from his present need of selling at any price officed in order to get any with his earts. The effect would be to create middlemen as in the grain market. I put out this suggestion tentitively for examination by Indian expert opinion. I am not sure whether a sufficient demand exists.

(2) Establishment of a licensed factory at each mands, to run only under conditions imposed by Government and on license. If sites were provided, several big firms would run on license. In new colonies, all ginning factories should hold their land on strict conditions as to management.

(3) A market law is required, prohibiting under penal clauses certain well known acts of adulteration, determining weighment and storago conditions and in other ways preventing the individual swindler whether buyer or seller from departing to his advintage from the general moral conditions of the trade. As regards other methods of improving evotic cotton, I have nothing new to propose. The agencies are aheady in eastence, viz., the Agricultural Department, the cooperative societies, agricultural associations and district officers. The agencies are sufficient, but the activities need to be stimulated. The Agricultural Department must aim at a great increase of personnel and that without departmentalism. The district should be the unit of administration and the agency should be increasingly Indian. I look for the time when every highly cultivated takeit will have its agricultural assistant working in association with though not under the control of the District Officer. When all the agencies are working together and gathering strength, we may expect to find vast improvement. Cotton is of course only one of the crops which will benefit. No legislation is wanted at present. There will be time enough for legislation when a general public opinion has expressed itself on the general pin ciples of agricultural improvement. It may then be necessary to protect by legislation the general public from the malpractices of lazy or indifferent individuals.

III --STATISTICAL

4314 (33 and 34) Improvement of cotton forecast and other statistical information—As regards the present cotton forecasts, I do not think there can be serious argument or dispute. The forecasts are almost worthless. The area figures are correct. The yields of lapas and lint are all wrong. The Punjab Government are in possession of the facts, and are fully sensible of the most unsatisfactory character of the work, and are considering methods of improvement. I think it immecessary to go into details. But it is necessary to insist upon one point. The old method by which the provincial forecasts was the sum total of the forecasts received from districts is altogether bad. It is not worth the while of an individual district officer to take extra trouble when he knows that his good work will be swamped by the bad work of others. The estimate must be the individual work of the Provincial Director, preferably the Director of Agriculture and he should use the district reports as his material, but should not be bound by them. He will insturably pay more attention to the careful reports received than to the careless ones. It should be the Director is duty not only to prepare the estimate, but to justify each estimate by the next and to justify each year's estimate by the subsequent press returns, railway and export returns. He will make mistakes, he should not fail to admit mistakes and to profit by them. But he will learn. The economic branch of the college staff should be able to give assistance in testing and re testing agricultural estimates and statistics, and this should be their first duty.

(2) The cotton press returns now received are now, I believe, very inaccurate. No legal regular on of cotton presses would be complete which did not rendor the submission of correct returns a legal necessity. Even new district officers could extract better returns from cotton presses than they are ever likely to supply

voluntarily to the Director at Headquarters

[Continued

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Mr A J W KITOMN, CIE, ICS

Punjab]

(3) In all matters of crop estimates, the definite aim should be to utilise the agricultural staff more and more and to depend less and less on the district and deshi staff It is not looking very far into the future to foresee a time when all such returns will be prepared entirely by the agricultural staff. The areas will always be supplied by the district staff, and the final areas of erop returns in the Punjab me more accurate than in any other country in the world. It should be possible to say as much of the crop estimates

(4) The time is approaching when we shall have to show exotic and deshi cotton separately in our crop The yields are so different that it is difficult to estimate correctly without separate grop figures There is no difficulty in preparing such figures, but as all the water rates are differentiated on crops and as exotic cotton is more valuable than deshi, the fact of differentiation in crop returns might give cause to an expectation of differential assessment, and might hinder progress This difficulty is real enough, but the offeet on cotton cultivation would not be considerable However I should we leome a pronouncement by Government that there was no present intention to differentiate water rates on different varieties of cotton. Government could hardly be asked to bind the future policy of future Governments, and a declaration of present policy would be sufficient. The Canal Department, which is the assessing Department, do differentiate now for statistical purposes only, and there is no indication of any check thereby on the replacing of poor deshi cottons by exotic cottons. As a matter of fact, the advantage of the exotic staples where there is an cottons by exotic cottons. As a matter of fact, the advantage of the exotic staples where there is an advantage far outweighs any possible difference of water rate

4315 (35) Publication of Liverpool and Bombay prices—Daily price lists are now being posted in all the markets of the Lyallpur district. They cause lively satisfaction to zamindars, who value them highly

In the case of one market, Tandhanwala, the difference between Lyallpur and local prices fell in a few days-The former difference was due to a permicious ring, which has been weakened from Rs 2 to a few annas by the cotton price returns aided in this instance by a little healthy official pressure and by publicity

Supplementary written statement submitted by Mr A J W Kitchin, CIE, ICS

4316 Inspection of ginning factories - Previous to the Factory Act of 1911, the Inspector of Factories in each district was the Civil Surgeon, with the District Magistrato as ex officeo Joint Inspector tions were found to be done in a very perfunctory manner, and after the passing of the Factory Act, a qualified Factory Inspector was appeinted. The range of his duties lies over the Punjab, North West Frontier Province, Delhi and Ajmer Merwara. His duty is to inspect every factory twice yearly and every seasonal factory (i.e., ginning mill) once in the season. The District Magistrate is still a Joint Inspector, but is not expected to do any inspection and in fact, does nothing. The conditions of work in the giming factories are described in lur d colours in paragraphs 12 and 13 of the Punjab Factories Report of 1916. In that report, it will be noted that the conditions are worst in the districts of Gujranwala, Jhang, Lyallpur and Montgomery In other words, the conditions are norst in the Lower Chenab and Lower Bari Dorb colonies Now in the colonies the ginning factories are only in the colony towns, where there are mandis where there are generally resident officials of some standing and where inspection could easily be arranged for Thus we find the conditions at their worst, where they could be at their best Moreover they iro at their worst in those tracts where the officers of the Agricultural Department are most in touch with agriculture and trade Within the last few weeks, the Inspector of Factories has joined the Army and Deputy Commissioners have been called upon to make their own arrangements for inspections. The results have at once followed that the departure of the single their own arrangements for inspections. The results have at once followed that the departure of the silver worked Inspector has resulted in a great increase in the frequency and effectiveness of inspections. the last few days, I have personally caught one factory working at night without permission, and have found three children of about ten years of age at work. In addition an Extra Assistant Commissioner, inspecting under my orders, has found one child under age at work and has pointed out numerous defects of less serious nature. The inspection work is only beginning. The influence of these inspections has been marked not only as regards conditions of labour, but in the attitude of the ginners to the zamindars. Monopoly working and monopoly swindling is breaking down. False scales are known to be used, but we have not yet detected any cases. Thus the removal of the official Inspector has improved the inspection. How are we to stop these factories working on holidays or at forbidden hours unless they are watched and watched centinuously? The highest penulty under the Factory Act is a fine of Rs 200. The factory owners can afford to pry such fines and to defy the law. The Factory Inspector at his best can only eatth them once or twice a year.

(2) My proposal is that the Deputy Commissioner should again be made responsible for inspection of

ginning factories in his district. It is a universal rule in India that departmentalism always breaks down, The Factory Inspector is most necessary, but his duty and that local administration is alone successful should be to exercise a professional supervision over the inspections done in districts. An exact analogy will be found in distilling inspection and in the prevention of illicit distillation I suggest that ordinary gunning factory inspection should be done by Inspectors and Sub Inspectors of Excise under the general supervision of the Excise Officer and of the Deputy Commissioner It would be easy to arrange for weekly inspections, and for regular inspection on Sundays and at night. The Agricultural Department might fairly be called in to help. They have exceptional opportunities of giving assistance. Such unprofessional inspections might well be confined to simple unprofessional matters—hours of working, age of children, weights and scales, samitary conditions and so on All this could be done at once and without any legislation whatever The immediate result would be to secure correct pressing returns, which are now not obtained at all, and a much closer control over the relations of the ginning mills with the cotton trade This can be done without legislation and at once. As regards legislation, it should be possible to license factories and to withdraw the licenses of those factories which disobey the provision of the law and of rules made under the law There would be no need to limit the number of ginning factories, if proper conditions were enforced effectively in the ginning factories which are allowed to work. The trade of ginning is a monopoly

trade and official control is most necessary and desirable

Mr A J W Kirchin, CIE, I CS, called and oxamined

4317 (Mr Wadia) I am speaking without expert knowledge. I am talking only from the point of of a district officer. As to the question of difficulties in regard to weighment in the factories, I believe view of a district officer that untrue weights and scales are used but I have not sufficient evidence to secure a conviction

4318 I am producing something which may interest the Committee (Annexure I)—It is the pool agree ment entered into by the ginning factories in Lyallpur and extracts from the proceedings of mettings of the members of the pool—It will be seen that at a meeting held at Lyallpur on the 16th November 1917, the ginners

Mr A J W KITCHIN, CIE, ICS

[Continued

agreed that no partner would get cotton cleaned or kept free from mixture owing to the difficulty in obtaining labour. So here there is a pool bound not to get cotton cleaned. I have not had the opportunity of comparing this copy of the agreement with the original documents but I believe it is correct -Amongst other things objections are made to the use of the presses for baling bhusa (fodder) for the use of the rrmy in Mesopotama

4319 It is generally alleged that neighments are wrong I have not been able to get any evidence which would justify me in a prosecution' The weights so far as I have had them tested are right The blame is not Wo know that the zamındar waters his lapas, puts his best cotton on tho top of the cart, his all on one side

worst in the middle and bricks at the bottom

4320 I do not know whether there is any deliberate damping done in the ginning factories point on which I can speak with authority I do not know whether the people mix the cotton of different pick ings or different varieties My own bolief is that the zamindars do not care what they do expeit and I cannot speak with authority on the matter I am not a cotton

4321 As to whether pools cannot be done away with by legislation, my own view is that legislation ild follow public opinion rather than precede it. As to the stopping of damping by legislation, I have put should follow public opinion rather than precede it in a supplementary note in which I have advocated such a measure in a supplementary note in which I have advocated such a measure. You won't get any final sottlement of the matter without legislation but legislation may take time. Proparatory to the energement of legislation, a great deal could be done by enforcing the law as it now exists. Since I wrote my supplementary note, my experience of inspecting factories has given me more knowledge of the subject. It is only three yeeks old, employed simultaneously or one day is less than fifty on one day, the Act does not apply at all. A small factory containing ten or twelve single roller gins can be worked with an establishment of less than fifty persons It is not then necessary to follow the provisions of the Factory Act. You can employ boys and garls of any age, on can work the factory day and night, in fact, you are free from any kind of restraint whatsoever like the Factory Act amended to deal with such cases

4322 It is true that the pool profits come out of the pockets of the cultivators but I do not know enough to condenin pools absolutely But it is certain that the pool is banded together to make a profit out of the cultivator At one of the merkets in this district, Tandhanwala, there is a close pool of two factories. When we started publishing Lyallpur prices, the price of cotton as compared with Lyallpur went up by Rs 1 to Rs 18 r meund. I have e list showing how the prices went up each day during the month of November. These two factories combined to keep the price fixed at that place. That has been the most striking ease of the results of posting prices in the mandi. Of course the trader knew the prices more or less before but the zamin dars did not Now ho does This monopoly was croated by Government Government only can give out land in the colonies. They give out land in this case for two ginneres and presses. They were put up and nobedy could put up any more because they could not get a site from Government. As to ginning and pressing charges, I suppose they are such as to leave a good profit. I could not tell you what the profits are but they ero supposed to be large Pools ought to be controlled As to the method by which they can be controlled I can only suggest various methods, but here again, I am speaking without expert knowledge of the trade I can only point out the difficulties. Licensing would do it. What I want to impress upon the Committee is the reality of the scandels in connoxion with ginneries and presses and to ask them to find a remody

4323 Then as regards the sale of cotton, when the Agricultural Department held auction sales, they not only sell the cotton but they look after the weighment also, which is directly against the interest of the ginners, or I should say against their apparent interests. I would suggest the establishment of cotton markets ginners, or I should say against their apparent interests with "mple storage accommodation. May I venture to say that I should like the agricultural esseciations associated with them? I do not know whether that would meet the difficulty at all There is at present A man comes with his cert to the muket, he no storigo accominodation in any market for loose cotton cannot store his cotton and has to take what price he can get for it. The establishment of separate cotton markets for each district has been suggested. In fact, Mr. Roberts and I are under engagement to start one at Lyallpur but we are waiting to see what the Committee recommends We went more storage godowns The proposal was accepted by a Committee which met in this room about eight months ago but I cm not in a position to say whether it would meet the difficulty or not or whether there is any real demand for it. It is not a subject which I have threshed out with the people. It would not, of course, meet all difficulties Cotton is the one crop which we cannot store. There is plicity of accommodation in the mandi, and in the houses round for storing ton thousand tons of wheat. Another mandi would be necessary. Then there is the question of the establishment of a housed factory in each mandi. What I mean (I am assuming that we do not propose to legislate) is that one standard factory which would be run on decent lines should be put I am assuming There is little up at each mands and that would make the worst conditions of a pool practically impossible It is no use asking for Government factories that you are not going to control all factorics chance of Government starting one but you might got a Government controlled factory You could get that A site could be found even now at Lyallpur I have also suggested that a market without much difficulty We have no market committees or market rules as in the Central Provinces lew is required we have chaudhris but they are unable to enforce any rule I should like to have a market law as in the Central I will mention a concreto case Cases of watering of wheat That was what I had in my mind It was condomned by the chaudhres and it was condomned by the trade existed in one of the mandis It was held, on appeal, I suppose correctly, that no offence crught a gross cese and the man was convicted There we have the mands, the chaudhars, the experters, the trade and myself ell trying had been committed we'rll failed Moro mandi opinion is not sufficient against an individual defaulter unless. As to whether I would advocate a law similar to that in the Central Provinces not only to stop an evil and we all failed tho law is behind it regulating how cotton is to be marketed, but also prescribing the rules under which brokers, aratyas and heensed weighers ero to work I should welcome as much legislative control as the Committee could bring themselves to propose but I could carry on with less The Committee could hardly propose more control than I would

4324 Intenor fifteen years, we shall have not work of the Agricultural Department allower the province We shall get them in and re Tho difference in the They will, of course, be in close touch with the Deputy Commissioner overywhere out of every branch of our work, if the Punjab is going to be of any use in egriculture last five years has been tremendous and in the next five years it will be oven greater. It mainply prophesying More students will be turned out of this college. During the three years. I have been in Lyellpur, I have seen

on enormous difference The six months class in the college is congested, owing to the wint of class rooms and teachers. It is proposed to open another school at Gardaspur. The demand for agricultural education both elementary and advinced, is enormously in excess of the present supply. There is a rush to fill every gap in the class rooms and one of the troubles of the Agricultural Department is that officials come here for training. Condidates for Government service come here to go through courses. There is a proposal that Naib Tahaildars should do so but the difficulty is to find room for them.

4325 Agregards inspection of factories, there was no Inspector of Factories until recently, i.e. eight or ten The Civil Surgeon was the inspections and the Deputy Commissioner was the joint inspector. The on used to get a fee for inspections. Ordinary inspections, I believe, were not very well done Civil Surgeon used to get a fee for inspections Ordinary inspections, I believe, Then the Fretery Act was passed and an Inspector of Factories was appointed The Factory Inspector has, I believe, something like 368 factories to inspect in the course of the year. He has to cover four provinces, e.g., North West Frontier Province, Punyb, Delhi and Aimer Merwara. The present Inspector, Mr. Taps, has I am told that they get about twenty prosecutions in a year for the whole province gone to Mesopotamur but I have hed 49 prosecutions in the last three weeks People 1 now when the Factory Inspector is coming The District Magnetrate has powers under the Factory Act and I do not ask for any more powers I approach the question with very little I nowledge and I can only offer suggestions I am far from suggesting any com plete scheme to be accepted for the whole of India I am only pointing out difficulties which I have met with from my experience of the lest three weeks My own idea is to differentiate between the big fretories rnn on decent lines and the petty gins with their insanitery conditions springing up all over the country. They do not deserve to come under the control of fully qualified inspectors. They should be handed over the control of the local authorities and the big fretories should be I ept for the professional inspector There are tules as to the conditions of lebour, observance of Sunday, ote, but they are never observed I have not seen any fectory which does not work extra homes nor have I been to any factory in which children were not employed There are cases here in which the machinery is absolutely unprotected The oxcuse is that fifty people are not employed in the factory and therefore the Factory Act does not apply Under the law, no man wearing a loose cloth is allowed to elean incellinery while it is working. A man wearing an ordinary blanket started eleming the machinery of a factory here during the last fortinght. His blanket was caught in the machinery and he was killed. Who is responsible eriminally? I example find any provision of law which makes the manager criminally hable, and so nothing can be done. The maximum penalty under the Factory Act is Rs 200 If rectory works at night and the owner is fined Rs 200 only once, it would not matter much to him but I doubt if he would do it if you caught him overy time he did it. It used to be the ease that overy District Magistrate was bound to visit each factory in his district and send in a report about it. I used to do I used to send a notice saving that I was coming and overything was found in order when I went round I sent in a report, sometimes I found mistakes and sometimes I did not If I made the inspections, I was put down in the Annual Administration Report as living done my duty and if I failed, I was called upon for an explanation. One cannot expect a Persist Comment of the content of the One cannot expect a Deputy Commissioner to run round and inspect factories upon for an explanation during the night Under the present Act only an Inspector has powers. The District Magistrate has nowers as he is an Inspector under the Act. Among other powers, he has the power of entry into the Among other powers, he has the power of entry into the As a matter of fact, most of my inspections are done by men other than myself who have not the No one ean sanction e prosocution except the Inspector himself. If you add to the number power of entry of Inspectors under the Act, every Inspector will have power to sanction prosecution and the control will be removed from the head inspector of the district and will be put into the hands of subordinates add to the number of inspectors, you add to the opportunities for corruption. On every grepresent Act is insufficient. I have merely suggested some ways in which something can be done On every ground, tho

4326 It is the even everywhere that there are more ginning factories then there is worl enough for That is why pools exist. I do not see any particular advantage in giving concessions to ginning factories where there are too many in order to induce them to move. The whole point about the ginning factories is that Government has created a monopoly itself and having created it, it seems to me that the responsibility hes upon Government to control it. The origin of the pool is business pressure. I am not suggesting that a pool is immoral in its origin. It may have been due to necessity but the result of this combination is restraint and damage to trade. It is the ease in this province that ginning factories have been originated where there was no work for them with no other object than that of sharing in the profits of the pools. That is so here too but the conditions of the colonies are peculiar in that all the land belongs to Government and the conditions under which factories have grown up are the direct result of Government action, not of course deliberate, but, none the less, the direct result of the policy adopted by it. If you look at Mr. Taps' annual report on the Punjab, you will find that he says that conditions are worst in the districts of Guyranawala, Jhang, Lyallpur and Montgomery. Those are the colony areas. Factories exist only in the colony towns, where inspection is very easy. Wherever you get factories scattered all over the district, inspection is not easy. In the colony towns, it should be very easy, but it has never been done, though it is there that the worst conditions are

said to exist

4327 (Mr Hodglinson) As regards the system of weighing and the scales that are used, so far as my experience goes, the ordinary beam scales are used in the mandis. As regards untrue scales and weights, I have not been able to find out any thing, but it is generally alleged by the zamindars that the scales are loaded. The sciler is always present when his stuff is weighed. I do not suppose anything very scrious occurs. I have no right to say that weighments are habitually wrong. I do not know that they are. I know that it is generally asserted that they are. The weights I have seen are not stamped. We have got a Weights and Measures. Act but it is not in force. We could get a man under the municipal regulations if he was using untrue weights.

4328 As I have already said, the Factory Act does not apply to a factory which employs less than fifty men. I do not know what was the original idea of that. The factory inspector has to inspect overy factory not less than twice a year, and overy seasonal factory not less than once a year. That is to say overy ginning factory has to be inspected once a year. I sm advocating increased inspection and I say that it could be done.

without any increase in the professional staff

4329 (Mr Henderson) As to the value of land from the agricultural point of view, a square is 28 acres. The price of land is rising. It is now from Rs 7,500 to Rs 8,000 a square. Rs 250 an acro would be a pretty fair average. It goes above that occassionally but is soldom below. There has not been an auction of land for a long time, as there is no Government and to sell now, but there is going to be one next month. There is a small extension of about eight to nino thousand acres in the south of the district. The district is fairly complete. Its irrigation conditions have been worked out and I am altogether against any increase of

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[Continued,

cultivation I want the district to settle down as it is When I came here three years ago, the Deputy Commissioner had power to sell land at a fixed price second had power to sell land at a fixed price. At my own suggestion, the power has been token. The price I have mentioned is the price at which land changes hands. I could not tell you how if compares with the other canal colonies but have no doubt that it is very much higher We give full proprietary rights as one of the conditions of the sale

4330 I have no considered opinion as to whether there has been any deterioration in the fertility of the land in this colony I know that the price of land is continually rising but it is generally energed black broughters are not as high as they were. I would rather not answer the question whether there is any foundation for that, as there are others better quelified to do so than I am. I think the average yield per aero is a good deal above five maunds of Lapas. The settlement average is four maunds an aero all over the colony. I not on a supposed average of six and a half maunds. I do not know whether that is correct. This year, land in this colony I know that the price of land is continually rising but it is generally alleged that the yields although they say that the crop has been a complete failure, I sent my men round to male an estimate and I found it was five and half maunds. I think six and a half maunds an across a good all round figure. As for wheat, I should say that the average figure is half a ton

4331 (Mr Roberts) The rules drawn up for the American cotton auctions have proved very useful this year. I suppose they are necessary. It is the universal cry from the zamindars that they find it very difficult to get justice in the ginning factory. That is one of the reasons for the popularity of the auctions Tho auctions are getting boyond control as so much cotton is coming in Wo are getting thousands of maunds, where we were getting only hundreds a year ago

4332 As to the licensing of factories, I presume the Committee will by down certain absolute conditions which are necessary for the improvement of the marketing of cotton in India and say that the ginning factories The working over hours and employment of children, are of secondary importance shall conform to them The licensing question could not be worked unless such control over factories were exercised as would make the wholesale ignoring of the existing law impossible. The important thing is the license for trade conditions and not for sanitary and factory conditions. It is for the Committee to say what the minimum standard should be and to see that it is conformed to. I should say that there is very little chance of getting a combination amongst gimers. The gimners as a class are not interested in the trade except for what they can get out of it They are a good class but they are very largely members of other professions who are not in the cotton business at all. The legal element is very large. The manager is never a resident in Lyallpur, and is always away. All the owner wants is a good return for his money and he does not one how he gets it. I do not see much hope of eo operation in existing conditions

4333 As regards market tules, I would only ask that the experience of other countries should be consi I do not want a swarm of mandi officials dored As fu as possible the arrangements should be run by the The general moral sense of the trade itself is very much higher than the moral standard of many of the individuals who belong to it. The trade itself would impose more eareful and stronger regulations than orec The ordinary chaudhris of mandis are quite decent people but they are helpless. No one appoints them They are just leaders of market Chaudhri is a very loose are at present in force agninst defaulters torm indeed but they are looked upon by their fellows as leaders. I would be inclined to give these chaudhris more legal powers

4334 (President) I am not particularly hopeful of the public opinion of the mandi. It is not sufficiently Legislation is the best public opinion

4335 The preparation of the forecasts should be taken over by the Agricultural Department It should

be done not at Lahore but at Lyallpur when the establishment is increased .

4336 The development of the economic side of agricultural education has not begun yet Then givo have got to get is a man who is interested in economics and has had some preliminary training him some problem to work out and as turn him loose and his knowledge and experience expand, he will do somothing I would emphasize the importance of agricultural economics The ordinary economic matter The point is that there should be a man to treble the economic problems of the is only the ground work province

The ginning and press returns should be made compulsory I have pointed out that even now I could get correct returns if anybody asked me to do so I have not heard of any abuses in regard to the

posting of prices in the local mandis

ANNEXURF I

Papers regarding ginning and pressing pools at Lyallpur

Agreement in regard to the establishment of a Ginning Pool at Lyallpur

A pool (union) is established on the following terms for four years between the following factories situated A pool (union) is established on the following terms for four years between the following factories situated at Lyallpur (1) Sri Guru Nanak Co, Ltd, through Rai Bahadur Hari Chand, (2) Sh Mahomed Ismail Maula Baksh Ginning Factory, (3) Punjab Cotton Press Co, Ltd, (4) Sh Mahomed Ismail Main Mahomed Ginning Factory, through Mian Mahomed, (5) L Ganga Sahui Ginning Factory, through L Bhoopa Mal, (6) L Bhawan, Sahui Kanshii Raim Factory, through L Brij Lal Mulhotra, (7) L Kurpa Ram Brij Lal Ginning Factory, through L Harcharan Das, (8) Seth Sukhdeo Baksh Factory (large) No 2, through L Prabhiu Dyal, (9) Seth Sukhdeo Baksh Ginning Factory (small) No 2, through L Prabhu Dyal, (10) Krishina Ginning Factory, through Rai Bahadur Hari Chand, (11) Seth Lorinda Ram Sewa Ram Ginning Factory, through Seth Prem Chand, (12) Gyan Mills Ginning Factory, through L Fateh Chand —

This union will be called by the name of "Local Ginning Pool, Lyallpur"

2 It will remain in force for four years, i.e., from 16th August 1914 to 15th August 1918, but this pool will be considered as cancelled if within this period the Punjab Cotton Press, Ltd., does not remain in the possession of Sh. Mahomed Ismail Maula Baksh, who for the present occupy it for one year till the end of June 1915

3 A sum of Rs 4 per maund will be credited to the "Pool Fund" on all the cotton purchased at Lyallpur mand, and As 3 per maund on all the cotton purchased at mofussil A maund will be of forty seers Pool

rate will be calculated on the cotton weighted

[Continued]

4 Pool rate will be distributed dudy according to the number of ginning machines as per detail below -

(I) Sri Guru Nanak Co., 50 gins, (2) Sh. Mahomed Ismail Maula Baksh, 24 gins, (3) Punjab Cotton
Press Co., Ltd., 28 gins, (4) Sheikh Mahomed Ismail Main Mahomed, 10 gins, (5) L. Ganga
Sahai Factory, 44 gins, (6) L. Bhowam Sahai Kanshi Ram, 48 gins, (7) L. Kirpa Ram
Brij Ial, 5 gins, (8) Seth Sukhdeo Baksh Factory (large) No. 1, 64 gins, (9) Seth Sukhdeo
Baksh Factory (small) No. 2, 3 gins, (10) Krishna Cotton Factory, 24 gins, (11) Seth Lorinda
Ram Sowa Ram, 30 gins, (12) Gyan Mills Cotton Factory, 16 gins

5 No partner will have any objection to show his account books and ledgers to other partners or their A special arrangement will be made from the beginning of the season to keep a cheek on the managers

accounts 6 A clerk and a peon will be engaged for the Pool Fund who will work under the supervision of the managers and will be paid for from the Pool Fund The office of the Pool Fund will be in the factory of Soth Lorinda Ram Sewa Ram or Krishna Cotton Factory, for which no rent will be paid

7 Every partner will have one vote, and cases under dispute will be decided by majority of votes and the decision will be final

8 The partners who have agreed to work their factory under the pool conditions will get their full share whether their factories work or are closed, and oven if closed on account of an accident during the sorson Every partner will give written notice to the Pool Manager up to 25th August each year about the working or closing of his factory according to condition 9

9 During the period of pool the following factories will be at work and closed -

(I) Sri Guru Nanak Co, will remain closed for two years

(2) One of two factories owned by L Bhowani Sahai Kanslu Ram and L Ganga Suhi Factory will remain working at a time throughout the period of pool

(3) Seth Lorinda Ram Sewa Ram Factory will remain closed for two years
(4) Krishna Cotton Factory, Gyan Mills Ginning Factory and Sh. Mahomed Ismail Mian Mahomed Ginning Factory will remain closed altogether
(5) The small factory No. 2, owned by Seth Sukdeo Bakhsh will remain closed for two years during the period of pool, and at this time L. Kirpa Ram Brij Lal Factory will be at work, i.e., for two years

(6) Seth Sokhdeo Baksh Factory No 1 (large), Punjab Cotton Press Co, and Sh Mahomed Ismail Maula Baksh Factory will not be closed throughout

(7) The factories can exchange their turns with one another and the conditions settled between any two that so exchange will be binding on all other factories in the pool The pool will become null and void in the case of breach of this condition and the party breaking the conditions will be liable to pay the loss to others that may meur on account of the failure of the pool

10 The factories at work will have to pay to the owners of the closed factories a sum of Rs 50 per gin before the 15th September each year as a security against regular payment of the instalment from the pool fund, and this security will be refunded to them in five equal instalments beginning from November and outling at March If, on account of any reason, the pool share is not paid to the owners of closed factories for more than a weel after due date the balance from the amount of security deposit of Rs 50 per gin will lapso to them and they will be at liberty to work their factories. The pool will then cease and all the shareholders in the pool can claim compensation from the factory at fault in accordance with conditions 9 and 16

In the case of pool system remaining in force, the factory which remain closed at the beginning of the season cannot be allowed to work in the middle of the season

11 If the factories at Chak Jhumra buy cotton for themselves at Lyallpur, then the factories in pool

at Lyallpur are at liberty to purchase cotton at Chak Jhumra The rate to be credited to the "Pool Fund" on the cotton purchased at Chack Jhumr i will be decided upon by the Pool Managers and all the other managers of the factories

12 If any working factory is closed on account of any reason during the season then it will be necessary for the owner to get it repaired before the next season

13 The Pool Munagers will work by turn without any compensation as "Pool Manager"

14 If any new factory is creeted during the pool period, then Pool Managers will arrange to call a meeting of the owners and decide about it The decision will be by majority of votes

15 During the continuance of the pool, if any owner of the factory gets more gins erected, he will receive no share for them, but if on the other hand he removes some of the gins to other place, his share will be de creased accordingly

16 The decision of Rai Bahadur Lala Hari Chand and L. Harkishen Lal will be final in all disputes con neeted with the pool

If any owner of the fretones in pool does tot abide by the above mentioned conditions he will be liable to pressum of Rs 10,000 as compensation in addition to the amount of compensation payable under condi Besides it will be incumbent on all working fectories to abide by the old conditions by mutual agree If any working factory becomes out of order, it can ask some other to work in its place till the repairs

have been completed No feetory can be given on lease or contract during the pool
Sd R B Hari Chand, Managing Director for Sri Guru Nanak Co, Ltd, Ginning Factory
Sd Mian Mahomed for (1) Punjah Cotton Press Co, Ltd, (2) Sh Mahomed Isinal Maula Baksh Ginning Factory, (3) Sh Mahomed Ismail Man Mahomed Gunning Factory Sd. L. Bhoopa Mal for L. Ganga Sahai Ginning Factory

Sd L Har Charan Das for L Kirpa Ram Bril Lol Ginning Factory

Sd Bern Chand for Krishna Cotton Factory

Sd Hardral for L. Bhowam Schar Kanshi Ram.

Sd Prabhoo Dyal for Seth Sukhdeo Bakhsh Factory Nes 1 and 2
Sd Fatch Chand, pleader, for Gyan Mils Cotton Ginning Factory
Norr—Both the Gyan mills can erect flour mills and oil presses on their present engine and boiler

Sd Seth Prem Chand Sindhi for Seth Lorinda Ram Sowa Ram Ginning Factory
Note — The factory will be at work for two years and will remain closed for two years according to the will of this owner

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(II)

Copy of proceedings of Ginning Pool and Press Pool Committee, Lyallpur, dated 13th September 1917

Present (1) L Kupa Ram for Kupa Ram Bin Lal, (2) L Probhoo Dyal for Sukhdeo Bakhsh Factory, (3) L Bin Lal for L Bhowem Shahia Kanshi Rem, (1) Seth Hakumat Rai for Lorinda Mal Sowa Ram, (5) L Fatch Chand for Gyan Mills, (6) Goosun Dewan Chand for Dewan Chand Ram Lebhaya, (7) M Mathra Das for I hakar Das Mathra Das and Guru Nanak Co, (8) L Bhoopa Mal, for Ganga Sahai Factory, (9) Shah Maula Bekhsh for Mahomed Ismail Maula Bakhsh, Punjab Cotton and Man Mahomed Ismail Factory

At the proposal of L. Pribhoo Dyal, L. Fatch Chand was elected as President of the meeting Proposed by Shah Maula Bakhah that proceedings about Lyallpur Press Pool be taken in hand first, as all present are of the same opinion, and added that the total amount realized on account of Press Pool up to now be distributed

L Prablico Day I rused en objection on Rai Balindur Han Chand who had given his factory on lease and enquired whether the Pool was in force or not and said that this point should be decided first. He idded that Rai Bahadur Hen Chand is hable to penalty if the Press Pool has broken down. The recounts should be settled up to the date of lease if the Press Pool is in force and M. Mathia Das is desirous of joining it, and if all agree the Pool can continue and the accounts cleared up to date

On this M Mathra Das and "I am desirous of poining the Pool from 1st August and am ready to accopt all conditions."

Another objection was rused by L Prableo Dyal relating to the lease of press of L Blowan Sahai Kanshi Ram Lactory for pressing bhusa, saying that no report was received. The point to be cleared is whether or not he was authorised to give it on lease. A report should have been submitted according to the term of the agreement

L Brij Lol iephed "I will send the account and report to the Poel Manager and am responsible for the

amount ''

L Probhoo Dyal again said that the recount should be sent up to date

Another matter was brought up by M Mathra Das which was agreed upon by all that no press should be given on leaso for cotton pressing to any contractor

Proposed by L Problem Dy 1 and passed.
That cotton of those gins should not be accepted for pressing which were not included in the Pool

M Mathra Das said that he will not press cotton of such factories at Chak Jhumra and L. Kirpa Ram and L Probleo Dyal should not do so at Gojra

Proposed by Sh. Maula Baksh and passed That Gyan Mills be included in the Pool at annas 11 as proposed in the letter, with all expenses men As the price of non his increased, the pressing charges of a bale be fixed at Rs 786, out of which Rs 38 should be paid into the Pool Fund by every press working and the balance of Rs 406 kept on account of expenses

Moreover, it was passed unanimously that if the cotton from Chunot factories is pressed at Chak Jhumra, then the owners of presses at Jhumra should pay a sum of Rs. I 12 per bale pressed to the Press. Pool Fund ** Lyallpur and if that cotton is pressed at Lyallpur, then the Pool Manager will pay the sum of Rs. I 12 per balo to the press owners at Jhumra through M. Mathra Das

M Mathra Das holds himsolf responsible for both the presses

(Sd.) L FATEH CHAND (Sd.) MAULA BAKUSH

(Sd) BHOOPA RAM

(Sd) MOHAN LAL (Sd) M. MATHRA DAS

(III)

Proceedings of meeting of Ginning Pool held on 30th September 1917

Present—Besides the manegers, the following were present—Seth Hukumat Rai for Seth Lorinda Mal-Sewa Rain, Goosiin Dewan Chand for L. Dewan Chand Ram Labhaya

M Mathr & Des said that he has given a letter to Brij Lel accopting all the terms for inclusion of the factories of M. Thakur Dag, Mathra Dag and Sri Guru Nanak Co, which he has taken on lease in the Ginning and Press

Pools and requested that he may be accepted on the same old terms. This was accepted by all

Passed unanimously and accepted by M Mathra Das that cotton purchased in Lyallpur mands by any agency will not be accepted for guining at any factory at Chak Jhumra If Sheikh Fazel Din lumself or others of the Chak Jhumra fetones buy cotton at Lyallpur, then Lyallpur factory owners can do so at Chak Jhumra A Ginning Pool fee of Rs 0 1 6 per maund and Press Pool fee Rs 1 12 per bale will be levied on such cotton if the Lyallpur factory owners begin to buy cotton at Chak Jhumra, then Mathra Das can also buy cotton from Lyallpur, but they will not apply to cotton purchased at authors by the Argustianal Department. from Lyallpur, but this will not apply to cotton purchased at auctions by the Agricultural Department

(Sd) L FATEH CHAND (Sd) SH MAULA BAKHSH (Sd) GOOSAIN DEWAN CHAND

(Sd) L BHOOPA MAL (Sd) SETH HUKUMAT RAI

(Sd) L KIRPA RAM (Sd) L BRIJ LAL (Sd) M MATHRA DAS

(Sd) SETH MOHAN LAT

(IV)

Further agreement in regard to the establishment of a Second Ginning Pool at Lyallpur

This day the 15th November 1917, we, the partners of working ginning factories, with the exception of L Dewen Chand Ram Labhaya and Seth Lorinda Ram Sowa Ram, have come to the following decision, which ls binding on us ill If any owner does not conform to these conditions singly or conjointly shall have to abido

[Continued

3 mention of alms. 3 members of alms aloned at an

Punjab]

by the decision of the Committee arrived at by the majority of votes, and the defaulters will have to pay

Rs 2,000, es penelty, which will be distributed equally amongst the others

1 All factories, the number of whose ginning machines is given below, are at work. As the cotton is not sufficient to meet our demand, the following decision has been arrived at. From to day every owner of the factory will buy cetton to keep 32 guis at nork and ho will get a sum of Rs 0 1 6 per maund of cotton purche sed from the Pool Fund besides the sum already allowed by the Goner I Pool in order to compensate him for not from the Pool Fund besides the sum aready anoved by the conter a Pool in order to compensive him for not working the test of his gins, that is to say, overy partner is allowed to buy cotton sufficient to work 32 gins, but he is of his given and the weight of cotton thus purchased will be verified every fourth day. The weight will include all cotton purchased from mojussil with the exception of that purchased in mandis on railway line between Lahore and Khanewal and Jhang rulway station.

2 The Pool has been organised for 1917 18 only and will be termed as "Second Local Ginning Pool" and Sh Maula Bakhsh has been appointed as permanent. Manager who will be in sole charge of all arrangements.

concerning the Pool

3 The amount of Pool money will be distributed overy second day
4 The weight of cotton will be verified overy fourth day and any owner of the factory found in possession
of more cotton than others will have to stop his purchase to enable others to make up their deficiency. And
if within eight days, the deficiency cannot be made up then other partners will not be liable in any way about

5 The cotton purchased and weighed by any owner of the factory up to 14th November is excluded from

this Pool if it has been entered on the General Pool

| TOTAL | 332 | 172 |
|---|---------|----------------------------|
| (5) L. Ganga Sahai Factory | 44 | 12 |
| (4) Mahomed Ismail Maula Baksh | 62 | 30 |
| (3) L Kirpa Ram Brij Lal | 50 | 18 |
| (2) M Thakar Das Mathra Das | 74 | 42 |
| (1) Seth Sukhdeo Bakhsh and Jagdish Naram Factory | 102 | 70 |
| | working | pool of Re 0 1 6 per maund |

6 Any owner of the factory if he does not wish to work his factory with cotton sufficient for 32 gms only can close it on giving notice in writing to Pool Manager within a week from the date of the institution He will get Rs 150 per gin (32 only) as deposit money against the regular proment of of the second pool Pool money, and if he gives information of closing his factory after a week but before 1st December he will be given a sum of Rs 100 per gin for 32 machines only as security deposit. A sum of Rs 50 per gin will only be given for those machines closed according to clause 5. The accounts will be cleared after the close of the season, but the amount of Press Pool will continue to be distributed as usual

7 If any owners of the factories wish to work together, they can do so They will get eotton at the

rate of 32 gins per factory whether they keep working two factories or one

8 If any owner of the factory wishes to close his factory during the season, he will give notice to the
Pool Manager and after which he will not be allowed to work his factory. In that case pool money will be cal
culated at "Second Pool" rates

9 Copy of above be forwarded to Seth Lorinda Ram Sowa Rem at Karachi with the request that he too should join and if he accepts then he too may be included in the "Second Pool" from the date of sanction 10 To day the rate of pressing his been increased by Rs 2 per bale. This extra amount of Rs 2 recovered

- from purchaser of cotton (ginned) will be kept by the press owners and the extra amount of Rs 2 recovered from those who get their cotton pressed should be given to the Pool Manager which will be distributed after every week in equal shares
 - (Sd) MATHRA DAS for Thakar Das Mathra Das
 - (Sd.) L JAI GOPAL for Karpa Ram Brij Lell
 - (Sd) L BHOOPA RAM for Ganga Sahai Fectory
 - (Sd) L MOHAN TAL for Sukhdeo Bekhsh Factory
 - (Sd) SH. MAULA BAKHSH for Mahomed Ismail Maula Baksh

Proceedings of the meeting held on 16th November 1917 by the partners of the Ginning Pool

1 Passed unumously that from to day no cotton whether American or country will be sold except in bags, that is to say, it will be sold on delivery in bales. The contracts entered into prior to this date we

| 001014 | | |
|---------------------------------|---|------------------------------|
| Name of factory | Name of party | Bales |
| 1 Seth Sukhdeo Bakhsh Factory | l Ramji Mal Trikha 2 Khushi Ram Bihari Lal | 1000 50 |
| 2 Ganga Sahai Factory | 1 Ramji Mal Trikha 2 Khushi Ram Bihari | 50 50 |
| 3 Sh Mahemed Ismail Maula Baksh | I Ramp Mal Trikhr | 75 |
| 4 Kırpa Ram Brıj Lal Factory | 1 Ramp Mal Trikha 2 Sewa Ram 3 Dewan Chand | 100 50 50 |
| 5 M, Mathra Das Thukur Das, | 1 Trath Das Lorinda Ram 2 Tota Daya Ram 3 Forbes 4 Tata 5 Dowan Chand | 51 11 151 51 200 |

2 No partner will get the cotton cleaned of mixture owing to the difficulty in obtaining labour

If any owner of the factory nets against the settled matters, he will have to pay a sum of Rs 301 as penalty to others. The Committee of the shareholders will decide by insports of votes as to the person at fault and the decision will be final and binding Before the meeting of the Committee, every shareholder

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[Continued]

will have to deposit a sum of Rs 101 with the Pool Manager, the belance of Rs 200 will be reclized by the Manager from the share of Pool money of the defaulter

> (Sd) SH MAULA BAKHSH (Sd) SITH MOHAN LAL (Sd) L JAI GOPAL

(Sd) L BHOOPA MAL

(VI)

Proceedings of 9th December 1917

Present —L Bhoope Mel, Sh Meula Bellish, Seth Hakumat Rai L Jai Gopel and M Mathra Das The following matters were decided about "Second Ginning Pool" —

It was decided that the second guining pool organised on 15th November 1917, by which every partner was bound to buy cotton sufficient to keep only 32 gins working and for which a sum of Rs 0 1 6 per maund was to be charged for the pool, may be expeciled. It was also decided that the resolution, dated 26th November 1917, fixing a penalty of a new 4 per maind on cotton purchased in excess of the quantity required for working 32 gins may be cancelled

As the two fectories owned by Seth Sukhdeo Beklish and the Jegdish Factory have been sold, the Pool Menager will calle meeting of the shareholders for 16th December 1917 at 4 P M on Sunday to settle the work ing of the pool system in future The distribution of pool fund hes on this account been stopped

(Sd) L BHOOPA MAL (Sd) M MATHRA DAS (Sd) SH MAULA BAKHSH

(Sd) L JAI GOPAL

(IIV)

Agreement in regard to establishment of a Press Pool at Lyallpur

We, the owners of press fectories of Lyellpur, agree and bind ourselves to abide by the following conditions

- (1) Messrs Kirpe Rem Brij Lel Press Factory, (2) Sri Guru Nanal, Company, (3) Messrs Bhowani Schol Kanshi Rem Press Factory, (4) L. Ganga Sahai Press Factory, (5) Punjab Cotton Company. Ltd, (6) Seth Sukhdeo Baksh Press Factory
 - (1) This egreement is made for four years, i.e., from 15th August 1914 to 15th August 1918, and will be considered valid after that date also unless any of the partners is desirous of leaving the pool, in which ease the party concerned will have to give a registered notice about his inten-tion of leaving it. The term of the notice will not be less than eleven months and notice cannot be given before the 15th August 1918 The pool will continue after the notice has been given and on the expire of the period of eleven months it will cease to exist
 - (2) If any owner of the press removes his press to another place, he can do so, but he will not be considered a member of the Pool after its removal and will get no share
 - (3) If any party transfers his press to another on account of some reasons, then the person to whom it is transferred will have to abide by these conditions
 - (4) The reto of pressing bales of cotton weighing 400 lbs with packing will be Rs 48 and for each bale of wool weighing 300 lbs with packing will be Rs 38 After deduction of Rs 186 on recount of expenses, etc., the belence will go to the Pool Fund and will be distributed equally among the owners of six presses

(5) If any other article is pressed with the exception of cotton and wool, then the owner is at liberty to chargo any rate, but he will here to pay a sum of annes 8 per bale into the Press Pool Fund

- (6) Pool Manager will be appointed from among the managers of the six presses by turn and will be hionorary A clerk and a peon will have to be engaged at a cost of not more than Rs 25 c month. This amount will be paid from the Pool Fund and will be deducted by the Pool If a press is closed, when its turn to give manager for Pool work comes, the manager can be appointed from the press whose turn comes next
- (7) In case of disputes the decision of Rej Baliadur L Hari Chand and L Harkishen Lal will be final
 (8) The managers of the presses at work will send reports of pressing beles daily to the Press Pool Manager and the meome of one dey will be distributed among the partners on the morning of next day

(9) Rai Baliadur L Haii Chend and L Herkishen Lal are authorised to press cotton of outsiders at a low rate and to refuse pressing of cotton of other ginning factories

(10) Presses whether working or closed on account of some accident during the serson are entitled to their full share Tho press which becomes out of order during the sesson will have to be set right before the next season begins, or in defruit will loose its share. If during the period of the Press Pool, any new press is established at Lyellpur of in its viemity and if loss is anti-cipated then Rai Bahadur L. Hari Chand and L. Herkishen Lal are authorised to arrange to get the new press included in the Press Pool on suitable terms, or in other ease arrangements will have to be made for competition

Dated Multan, Saturday, the 14th February 1914

- (Sd) KIRPA RAM BRIJ LAL, Sri Guru Nanak Company
- (Sd) BHOWANI SAHAI KANSHI RAM, Ganga Sahai Press Factory, Panjab Cotton Press Company, Ltd and Seth Sukhdeo Bakbsh Press Factory

(Sd) L PRABHOO DYAL

Note—We the owners of the above presses have also ginning factories at Iyalipur and we do hereby promise not to give on lease or contract or in any other way our ginning factories to exporting firms during the continuately of the Press Pool Exporting firms include all Luropean, Japanese and other trading firms (Signed by all above mentioned)

Mr A J W KITCHIA, CIE, ICS

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(VIII)

Further agreement in regard to the Press Pool

This day, the 15th of September 1917, the following has been agreed upon by the press owners -

1 Owing to the rise in the price of iron plates, packing materials and coal, the charges for pressing bales be increased by Rs. 2 per bale, i.e., Rs. 9.8.6 will be charged for each bale intend of Rs. 7.8.6 and out of this sum an amount of Rs. 3.8 per bale will be prid into the Press Pool I and by the owners of the working presses and Rs. 6.8.6 will be retained as expenses. The Pool Manager will notify this rise of charges to purchasers. The provious rate of Rs. 7.8.6 per bale will be levied on all entered into and on all cotton lying unpressed with the following presses prior to 15th September 1017 -

| Name of factory | Name of owner | Quantity in bare |
|------------------------------------|--|--|
| I Sukhdeo Bakhsh Factory | 1 Bussun Co 2 Pamji Mai Trikha 3 Khushi Pam Bihati Lal | 251 - 300 - 50 |
| 2 L Ganga Sahai Factory | Lorinda Ram Sowa Ram Porbes Co Ramji Mai Trikha Khushi Ram Bihari Lai | 152 25 50 50 |
| 3 L Kirpa Ram Brij Lal | 1 Lorinda Ram Sewa Ram 2 Bussain Co 3 Pamji Mal Tril lia 4 Diwan Dhanpat | 125 - 51 100 131 |
| 4 M Mathra Das Thakar Das | 1 Bussain Co 2 Tirath Das Lorinda Pain 3 Tota Dava Ram 4 Diwan Dhanpat 5 Forbes 6 Tata and Sons | 257 • 251 • 11 • 200 • 151 • 51 |
| 5 Sh Mahomed Ismail Maula Ral lish | 1 Diwan Dhanpat 2 Ramfi Mai 3 Lorinda Ram Sena Pam 4 Bursafa Co | 40 75 30 30 |

2 L. Kirpa Ram Brij Lal lias promised to giv on rebato of eight annas perbale to Seth Tirath Das Lorinda Ram provided the latter signs an agreement and seads it to the Press Pool Manager within a week that he will get pressed from L Kirps Ram Bry Lal all the cotton gunned at his factors during this sesson. No other press in the Pool is allowed to give any relate whether in each in rate or in a cight to any kinning factors

3 In the case of decrease in pressing expenses or in case of some loss to the Press Pool the sharcholders can call a meeting to consider the question of reducing the new rate for presung

- (5d) L. LACHYIN DIS, for Bhowam Shar Kanshi Ram
- (Sd.) L. ISHAR DAS, for Gyan Mills.
- (Sd) M MATHRADAS
- (Sd) SI TH MOHAN LAL
- (Sd) IL BHOOPA MAIL
- (Sd.) SH. MAULA BAKHSH
- (5d) L JAI GOPAL

M A J W KITCHIN, CIE, ICS

[Continued

| H | |
|----------|--|
| ANNEXURE | |

| Sk | Statement showing the daily rate per maunt of American and Deshi cotton for the month of November 1917 at Tandilianwala and Lyalipur Mandis |
|---------------------------|--|
| - | Date |
| Mandis | 1 2 3 4 5 6 7 8 0 10 11 12 13 14 15 10 17 18 10 20 21 22 23 24 25 26 27 28 29 30 |
| | Res Res a Re |
| American Tyndlliauwala | 13 8 13 14 14 4 14 0 14 2 14 7 15 0 15 7 15 12 15 15 15 15 15 15 15 16 7 16 13 17 0 17 0 16 14 16 15 17 2 17 0 17 8 17 8 17 12 17 10 17 12 17 14 |
| Lyalipur | 16 0 10 0 16 4 10 0 16 14 17 0 18 0 17 0 17 0 17 4 17 12 17 2 16 15 17 0 17 4 17 10 18 4 17 14 18 0 18 0 18 18 18 8 18 0 18 0 18 8 |
| Deshi Tandilanwala | - 10 8 10 8 11 8 11 9 11 8 12 9 12 8 12 11 12 0 13 0 13 4 12 14 12 13 13 13 13 13 13 13 0 13 8 13 12 13 12 13 13 14 14 13 4 14 6 14 12 14 12 |
| ndilput e1 | 12 0 12 0 12 4 12 4 12 4 12 7 12 8 12 9 12 12 13 13 13 12 14 12 14 13 0 13 2 13 6 13 0 13 6 13 7 14 0 14 2 14 2 14 0 14 4 |

Mr SARAN DAS JAIOTA

Mr SARAN DAS JALOTA, partner of Mr Mohan Lal Badhwar, Cotton Ginner and Presser.

EXAMINID AT LYMITUR, JANUARY 12TH, 1918

Written statement

-Agricultural Enperince

(a) "Deshi " short staple cotton

4338 (1) Experience -I have been most of the time in Hansi, District Histor, and my experience of the placer enges from 1905. There have been good as well as had years and the quality of cotton he stranged from "good," "fully good" and even to "fine" We have sold our cotton locally, and have often sent it to Bombay and Karachi

4339 (3) Size of holdings —Land in this district is under the control of big landlords, who sublet it to farmers. We may say, on an average, a tenant works on about ten acres of land. Sixty per cent of his holding he uses for kharr/ and forty per cent for rabi crop. Of sixty per cent kharr/, half, viz, thirty per

cent is put under cotton cultivation

4340 (4) Yields and profits—The total number of acres under cotton in this district varies from seventy thousend to a lekh or near about (definite figures may be obtained from District Officers). Vield of kapas or raw cotton is very poor and amounts to about 3.7 mounds per acre. Taking the everage price of lapas for the last teny correct Rs. 9 per meand and deducting from its cost of ploughing Rs. 6 per acre, weeding Rs 6 per eere, revenue, weter tax and land rent, Rs 9 per eere, the net meeme of a tenant, including his labour for six months, comes to (Rs 423—21213) Rs 213 per acre. The average holding being ten reces and thirty per cent of it being under cotton (house) from the cotton crop the farmer makes about 213 ×3=Rs 63 9 in six months

4341 (5) Rotations and manures —Usuelly cotton is sown either after wheat or on the land where on was sown in previous year. The fluencial condition of tenant being very bad, landlords not taking cofton was sown in provious year any interest to make land yield more being classes a freed of enhanced revenue, mamires not being obtain rble in lergo quentities, artificial minures not being introduced in India to any extent, hence ell crops are grown without any manuring. These being the conditions for all kinds of cottons, the farmer, it by good luck he happens to sow seed of a cotton that yields more lint, gets better prices than his brother who

sowed seeds of cotton giving poor lint

4342 (7) Conditions affecting increase in area -The area under cotton cultivation varies, depend Often a tenent cannot son cotton because he does not get ing upon canel water supply and timely r ins-

enough water and that in time

4343 (8) Uses of seed and seed selection —The seed is mostly used as cattle feed In some villages seed selection is effected, and that on the principle that the farmer takes the best bolls, hand gins them, uses the lint for spinning and I ceps the seed for sowing

II -COMMERCIAL ASIFCT

4341 (30) Local trade customs —The system of marketing is that the faimer brings lapas from his field . to his house where he stores it, in order to inixell pickings good and bad, a petty trader goes into the villages, purchases small amounts of cotton from most of the farmers, mixes the Lapas thus gathered and brings it

to the ginning fectories where it is sold through his commission egents

4345 (31) Standardization of commercial names -1 uture (forward) buying or contracts are not entered into by traders with fermers but among themselves. There is no commercial name of different grades of cotton, it is all desh. It is impossible to strudardise any names as the quality of desh of one place mey be good enough to press in "fine," while of another place it may go in "fully good" and of a third place may be classed as "good" or even below. The cotton when it reaches Bombay is seen by the experts and classed under whatsoever class it comes

4346 (32) Buying agencies —The present system of buying, as it is, is best A man brings his goods and sells for the best prices through his commission regards to the highest budder, the purchaser looks at the goods and if the price suits lum he purchases, otherwise he refuses. No recues under Government control seems practicable. No rates can be fixed es lapas of one eart may be so very different from another Each cart of lapas fetches what it is worth and often more where there are more factories than the production of lapas, es in this place (Hansi) where there are so many ging, which, working all at a time, would finish the whole crop in fifteen deys

4347 General recommendations for improvement of quality of cotton -To obtain the best results for pro ducing better quality cotton it is absolutely necessary that experimental research work should be carried on to improve the condition of the plant, but research work should be done in such a way that fermers or ginners may obtain the maximum benofit. To obtain the end, it will be necessary that results obtained by research staff should be published and distributed free of cost among farmers and others interested in the

(2) Most of the fermers ere illiterate and very conservative in their methods. It will be much better if, in coch cotton growing district, some plots of lends, for e certain period, be given to some enterprising young men, who will undertake growing of cotton or other articles under the direction of Director of Agriculture, they to keep all kind of records as desired by the Department, in short these farms should work as demonstration farms and they should be given all possible assistance. These young educated farmers by means of these domonstration farms will do improvements in ten years which by means of present experi mental farms may take a century

(3) The most regrettable thing is that although India possesses the best soil and best elimetre conditions, yet its people through their own ignorance and poverty are unable to take the full returns from An American fermer gets double the yield of lapas per sero and their lapas fetches more than double the price, simply because he is educated and progressive, makes use of inchures, sows better seeds, is always in touch with the Government research station, and looks to them for help which is given as willingly as freely asked. Make such conditions in India, help the farmers by establishing demonstration

Mr SAUAN DAS JALOTA

[Continued

farms and the condition of farmers will be changed and Indian as well as Lancashiro Mills will be saved from paying too high prices to America which sells always at highest

4318 Necessity of control of ginning factories—For the production of Lapas, to manufacture it and to

prepare goods of selected kind, guining factories should be controlled, and kept in touch

(2) In any place more factories should not be allowed then are necessary. In certain stations, there are more factories than needed while at others there are none, hence at one place money invested is wasted and at others the crop suffers, there being no machine y to handle and move it

(3) Small factories of a few inschines working day and night, not being under the Factories Act, and

disposing of their goods locally for quilts, etc., often assist in lowering the stendard of cotton, as no picking is made in what is to be sold locally, price goes on rising, big fretories cannot afford to do what small factories are not doing, hence in competition for cheapness the quality of cotten and seed is ruined

(4) Usually McCarthy roller gins are used in India, saw machines being neither suitable for short staple nor for very big staple, hence they are not used successfully in the Punjab Long staple cotton can be ginned, on the existing machines but present buildings of ginning factories are not suitable to handle valuable cotton— Lapasend cetton gets unved up, there being only one presence for mon handling both Lapas and cetton. Some times seed also, though separated by the machine, yet it again gets mixed being accumulated too much under the machine, therefore for obtaining pure quality of cotton changes should be made in the buildings of the ginning room. It is immateral how these are effected as long a section, Lapas and seed cach remain separate

(5) In our opinion, it will be much better if in erch cotton growing district, Government puts up a model factory or arranges to here a factory put up by giving some help to some factory owner for making the altera

- 4349 Measures necessary to increase cultivation of long staple rotton -In our humble opinion, any of the following methods be adopted, if possible, to assist growing of long staple cotton in place of deshi -
 - (1) Government to start demonstration farms run by itself and show the people profit arising from sowing long staple lapas

(2) Government to give assistance to present fermers in seed and menures

(3) In each cotton growing district, Government to give lands for a certain number of years to enter prising educated young men to start domonstration farms

(4) Canals to supply plenty of water when it is needed for sowing long steple varieties

- (5) Government to introduce improved agricultural implements and lend of rent same to the farmers or to assist some local firm to take up the work in each district
- (6) Lands of each district to be analysed and manures, as thought proper by Government experts, to be prepared and given or sold to farmers at nominal prices
- (7) Lowering water and lend tax for the farmers who sow long stople cotton to give them an impetus (8) A model factory to be erected by Government or through its assistance, that factory to supply seed of pure quality and cotton that gets out of it to be called by standard name

In case Government thinks fit to accept any of the above proposals or any others, we are willing to co operate and does much es in our power in establishing demonstration farms, in creeting model factory etc., under instruction of the Director of Agriculture or as otherwise advised

Mr. Sinin Das Infori called and examined

4350 (Mr Wadia) I em a partner of Mr Mohan Lel of Hansi. At the present time, we have got 66 working. We have 110 gins at Hansi in all but during the recent rains a part of the factory foll down. and 44 gins were drunged. We have also got a press. There are ten ginning factories in Hausi, Hissa and Bhiwani with over a thousand gins. If all the factories at these places were working, the work would not to enough for fifteen days. The average total crop is about two lells of munds. This year five of not to enough for fifteen days. The average total crop is about two lells of mainds. This year five of the fectories are working but not at their full espacity. Many of the buildings were damaged by the rains. The number of gins in the factories varies from about 20 to 110. The crop is extremely bed this year, and will be only about 80,000 mainds. We expected about seven to eight lakks of mainds from the sowings,

so that we shall only get rbout one tenth

4351 There can be no better system of buying then that at present under which the seller brings his goods to the market and sells them through his commission agents. Goods are so varying even in one cart that you cannot fix any price. You cannot ask the purchaser to purchase on a fixed price. Nother the purchaser nor the seller would be satisfied it any prices were fixed. The seller brings his goods through his commission agent to the ginning factory If he is setisfied with the price and the purchaser is satisfied with the goods, a deal is done. If either of them is not satisfied, the seller takes his goods to nother place and

sells them there

thom there Sometimes it happens that one party offers more than others
4352 The research why cotton comes in in a mixed state, is that the firmers are not so very careful in They try to get the best price from the gimneries and therefore put some bad cotton in the their pickings middle and some good cotton at the top to give an appearance of better quality. Cotton always comes in in a mixed state. It is very seldom that we get pure quality. The farmers sell part of their kapas to the in a mixed state banias and aratyas Sometimes the bania goes to a villago and purchases lapas from two or three different fermers and mixes the whole let before bringing it to the gimning factory. The bania and the fermer both mix lapas. The farmer does not keep the different pickings separate. He does not take into consideration

mix lapas The tarmer does not need that a better quality will get a higher price

4353 The bania who purchases cotton does not advance money to the cultivator but there are banias

They do not purchase cotton themselves

They do not purchase cotton themselves and a ct as commission agents. on a big scale. They do not buy the standing crop in my district. In practice, the factory owner fixes his own price when cotton is brought into his fectory. It may be the price of the day or not. In a place like Hansi where there are so many factories and so little crop, for the last seven or eight years the cultivators. have been getting better prices then they could get anywhere else. All over the Punjab, the gimers and pressers buy on their own recount. The system is very different here from that in the United Provinces. There the ginners and pressers only work on commission. In the Punjab, overything is done by one and the same party It is the fretory owners who purchase the kapas, gin it, press it and then send it to Bombay for sale there—The fretory owners pay for thirty mounds of lapas what on that day is the rate for one thands or lint plus the price of twenty manides of cotton seed less cartage, commission, insurance and Rs 7 to the pool. Every gimer thinks the more he can gin the less will be his expenses

[Continued

Punjab]

4354 The price of ginning and pressing is fixed. Where the gins and press belong to the same person, it is immeterial whether his profits are made on ginning or on pressing. There is a ginning pool at Hansi Four annas per mound of lapas are paid into the peol and the total is afterwards distributed among the gin neries according to the number of gins each factory possesses. The pool does not regulate the price for ginning and pressing. Undoubtedly if different charges are made by different factories, the one which made the lewest charge would get the greatest amount of lapas. The pool does not fix the price of lapas. There is no buying pool, there is only a ginning and pressing pool. Any guinery or press can charge what it likes Everybody is on his own and may purchase at any price he chooses but it is immeterial what price a ginner pays as he has to pay four annas per maind to the pool whether he purchases the lapas for Rs. 15 or Rs. 15.8.0 begins a maind of lapas is equal to Rs. 7.8.0 per lhandi of rui. The object of these pools is to enable the ginners to make something. If one party does not do it, the others must. As it is, by fixing a minimum of four annas to be paid into the pool, we tried out best to cut competition down. The money paid into the pool is supposed to come out of the cultivator's pocket, but often it does not. Usually the pool accounts are settled every year but they have not been settled for the last two years as some of the parties did not pay up and did not come to the meetings.

4355 I have suggested in my written evidence that it would be much better if in each cotton growing district some plots of lands were given for a certain period to some enterprising young men who would under take to grow cotten and other crops under the direction of the Director of Agriculture It is true that we have a Government experimental farm in Hausi. But when people come to know that it is a Government farm and that so much money has been spent upon it, they think that it is out of the power of an ordinary cultivitor to do things on that scale If there were such farms as I have suggested, which were being run on a business basis and cotton was grown on thom, that would give a better idea to the farmer. He would see that while his cotton was being sold at Rs 10, the cotton from the farm was being sold at Rs 12 or Rs 13, ie, at Rs 2 or Rs 3 promium and he would naturally try to follow the farm methods and sew that cotton As long as the work is done by Government, the people think that an enormous amount of money has been spent and it is immaterial to them whether the Government cotton fetches Rs 15, Rs 20 or Rs 30 is manted is demonstration farms run by independent farmers under the Director of Agriculture perimental farms should be in touch with the demonstration farms and demonstration farms should always The demonstration farms should receive instructions from the experimental the same way. The man in charge of the experimental farms would visit the be in touch with the people forms and try to do things in the same was demonstration farms three or four times a year and see how things were and give personal advice on the spot

4356 I think it is suggested in my written evidence that a kind of model factory should be established either by Government or fretory owners which would specialize in ginning particular cotton instead of mixing it up with other cottons. That is, it would be ginned separately and kept separately. We should be willing to purchase cotton from the farms I have suggested and we would guarantee that we would not mix it. I have already stated in my written evidence that more factories should not be allowed in one place than nonecessary for the erop. The difficulty comes in when there are already more factories in existence. There may be some other places where there are not enough factories. I think if the factory owners were asked to remove to such places and some assistance in the shape of land and so forth were given to them by Government they would be willing to do it. Their factories are mostly lying idle and most of them are dependent en these peels because the pools were formed chiefly for the purpose of keeping their factories shut. Otherwise thousands of gins would be werking in the Hissar District. Now we have only three to four hundred working in Bhawani, Oklam, Narnaul and Hissar. Most of the factories are simply extrafted with the little that they get ent of the pool. If all of them were to start work, the work would only be enough for two factories. Every one of the ginning factories has had tremendous losses. If they are given a few facilities, they would be willing to remove to some other district. It is a question of removing their machinery. In a new place, Government should not allow more fectories than are necessary for the Department of Industries or of Agriculture.

4357 I am in favour of legislation to provent more factories being put up than are really required. In Hansi there are ten factories. More than fifteen lakks of rupees has been invested in them. There may be some places where there is no factory at all and yet there is a bumper crop. In Hansi, the money invested is practically wasted. Four factories would have done as much work with an investment of about four lakks as ten have done with an investment of fifteen to sixteen lakks. It is the duty of Government to see that public energy and money are not wasted. If legislation is necessary to prevent this, I do not think there is any harm in having recourse to it.

4358 I have already stated in my written evidence that small factories of a few machines working day and night, not being under the Factory Act, and disposing of their goods locally for quilts, etc., often assist in lowering the standard of cotton, as no selection is made in regard to what is to be sold locally. This year the amount turned out by small factories not under the Aet has been small. As the small factories require only a small amount of lapas, they start working at the beginning of the season when the arrivals of lapas are low and male handsome profits by selling locally. When a big factory starts, as it requires a bigger amount of lapas to work and all the season when the season when the arrivals of lapas to work a start of lapa of Lapas to work all its machines, it offers bigger prices and competition starts, each factory trying to purchase enough cotton to keep its machines busy The big factory has the advantage that its output is big, hence its expenses per maund are lower than those of the small factory The small factor, makes up this difference in expenses by purchasing a lower quality and mixing thereby lowering the standard and by selling its cotton locally rather cheap. This year we seld locally 400 to 500 bales. Some of it has been sent to Marwar for local use. I do not know whether Marwar cotton is better than our own and whother this cotton is bought I consider that big factories and small factories should be put on one and the same feeting If there is logislation on for hig factories, there is no reason why it should not be for the small factories is well, and vice versi. If one factory can only work for ten hours, why should another be allowed to work for 24? The small factories are net under the Factory Act and they can work with women as well for any number of hours. The present buildings of ginning factories are not suitable for the handling of cotton. No platforms are wide enough Under the present system there is only one passage and there are machines on When a man brings in Lapas, some of it falls into the pressege and is mixed with ginned cotton from the machine Then the men carrying Lapas probably throws it over the gin on the platform and some of it falls and gots mixed with the ginned cotton. There must be some arrangement to prevent this There should be a separate entrance for kapas and a separate exit for cotten, or the cetton should be carried away by convoyers. It must be arranged that seed, lint and lanas should all remain separate and not got mixed up, As to whether the present ginning factories should be remedelled on a definito plan, I

Mr O HAPPLIGER

should say that they will remodel themselves when they are gimning a better quality of cotton money has been invested in the factories for them to remodel themselves for the present erop. The question of ontrances is not the only one. There is also the question of pressage of the machines. The size of the platforms belind the gins is only 4½ feet. The condition of the factories is very bad. They have been suffering losses, and it would not pay them to remodel.

4359 I have suggested in my written evidence that Government should introduce improved agricultural implements and lend or rent them to the farmers or should assist some local firm to take up the work in each district. What I meant by that was that the farming implements which are now used are of a very crude nature. The farms are not big enough and the farmers are not in a position to purchase better implements by themselves. Take for instance the case of threshing machines. There are not very many farms who have enough work to employ a machine of their own. That is also the case with the Raja plough. Most of the cultivators have not got strong enough oven to draw them.

eultivators have not get strong enough even to draw them

4360 (Mr Hodgknson) I have ginned American cotton at Jhang I used to gin it in the same gin as

deshi The American cotton was ginned after the deshi No alteration was necessary in the gin, beyond
simply an alternation in the fixing of the knives Of course, in ginning American cotton, the grids have to be
changed to allow the seed to fall through The grid for deshi is about one eighth of an inch while for

American it is about a quarter of an inch By putting in something between the two we can gin deshi as well as

American on the same grids We do not have to change the grids every time We change from

American to deshi and vice tersa The mistri alters the fixing of the knives very easily

4361 (Mr Roberts) I have had a little experience of American cotton in Jhang I was about four
years in Jhang We started a factory there in 1909 10 We have been buying American cotton since then
There was a fairly large quantity of American cotton available there in 1910 and that was the reason why

4361 (Mr Roberts) I have had a little experience of American cotton in Jhang. I was about four years in Jhang. We started a factory there in 1909 10. We have been buying American cotton since then. There was a fairly large quantity of American cotton available there in 1910 and that was the reason why we put up a factory. The quantity that we are getting is more and more narma and is improving. At first we get more deshi and less narma. Now we get more narma and less deshi. Even at the present time, we usually find about ton per cent mixture of deshi in the American oven in the very best cotton. We do not do any intentional mixing hecause when prices are high the difference between the price of the low grades and high grades is very low. When the prices fall, the difference in price between the high and low grade is tremendous and thus there is always risk in mixing. If the rate for pure cotton falls, it falls only by a few rupees whilst that of a mixture falls tremendously. It is not to the ginners' advantage to male on intentional mixture because if he is sending his goods to Bombay, he is not certain whether prices will rise or fall and if they fall be will get a much better price for pure American then for a mixture. So speaking for ourselves, we try our very hest to send the best that we can get. We do not gin any American cotton at Hansi

4362 I am very strongly in favour of this zamindars and the trade being in very close touch with the Agricultural Department. I think that is very important and everything depends on it

Mr O HAFFLIGER, Agent, Messrs Volkart Bros, Lyallpur

LEAMINED AT LYAILPUR, JANUARY 12TH AND 13TH, 1918

Written statement

II -COMMERCIAL ASPECT

4363 Experience.—Wy experience as a cotton purchasing agent in the Punjub covers a period of something over four years. I have bought cotton extensively in the following markets. Ambala, Khanna, Sirland, Gohindguth, Nabha, Kaithal, Narwana, Pampat, Sonopat, Karnal and Saharanpur (United Provinces) during the season 1913-14. Since 1914-15, I have been working in the same expactly in the Lower Chenab and Lower Jhelum colonies. In 1906-07, I purchased cotton and Lapas at Cawingore and Etawah, and in 1907-08 I was in charge of Volkart Brothers' Agency at Nagpur with ginning factory and press.

4364 Trade conditions in the Punjab — I find that, in matters of trade, the Punjab is in a state little short of anarchy, so much so that, the one element so very important and so lighly esteemed in European business life, trust, is entirely out of place here. Forward contracts can only be entered into with a very limited number of dealers and factory owners, and even then there is no certainty as to the quality they would deliver, if the market value on delivery date were considerably above the contract rate. The number of dealers that would, in such a case, try to wriggle out of their obligation is alarming. If they do deliver, they will tender the lowest quality they can make, and the buyer has the option to take it or leave it. If he takes the latter course, he will have to buy against the defaulter in the market and will be left to obtain, after an endless hitigation, a verdict for the loss he has suffered.

(2) One remedy that has been tried in this connection is to bind the seller down to deliver a guaranteed class on arbitration by the Bombay Cotton Trado Association, or by the buyer's office in Karachi. This system has, however, its drawbacks. Firstly, the seller does not like to give any guarantees, if ever he can avoid it. In order to compel him to do so the clief up country buyers would have to unite for this purpose. With the advent of Indian speculators and mills as big buvers in up country markets, this is very unlikely to happen, moreover, if the seller has to guarantee a certain class, he will not guarantee anything superior to the average he can reasonably expect to deliver, while the European firms' selection is known everywhere to be above average. Thus if the crop should turn out superior to the seller's expectations, he would lower the level of quality to the level of his guarantee by buying adulterated or otherwise inferior kapas even at rates disproportionate to its intrinsic value. The appreciation of such kapas would not favourably influence the cultivator. It is not easy for buyers always to pay full premium for better qualities delivered against contracts for low class since they cannot recover them from their customers under the Liverpool contract, while they could do so when selling on Bremen contract for mutual allowance. In this connexion, it would be interesting for the Committee to enquire from experts in Bombay, how the introduction in Liverpool of the Home Guarantee contract has affected the standard of quality.

Mr O HAEFLIGER

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(3) The best means of ensuring the best value for the best lapas would be the elimination of factory owners as dealers We are, in my opinion, striding towards this goal. The purchase of ginning factories by Indian mills has been a step in the direction of eliminating the factory owner as a dealer. He will in future be mere inclined to gin on commission for other mills or for exporters, which most of them now absolutely refuse to undertake. The question of immediate importance is whicher Indian mills will co operate with other buyers to encourage cultivators to raise the quality of their product, and whether they will help to lift the present low standard of commercial morality by themselves living up to clean Western business principles. Unfortunately my experience in this part of the country does not teach me to be suguine on thus score

(4) If Lancashire has the desire to come into closer business relation with India as a cotton growing country, the establishment of Indian mills' ginneries in the local kapts markets is not apt to expedite the realization of their hopes. Indian mills are too well off to allow Laneashire to take a big portion of the American cotton grown here, unless the quality is improved to such an extent as to be too good for Indian consumption That is to say, the quality ought to be fit to be put to more profitable use at home than out here. This would enable Lancashire to take from India supplies, which bitherto had to be drawn from

the American cotton belt

1365 Desirability of establishing local Chambers of Commerce — With a view to improve trade inorality in the Punjab the establishment of local Chambers of Commerce would certainly be a boon Lyporters, Indian merchants and mills should 10m and the local authorities and agricultural officers should play a prominent part in these Chambers Deputy Commissioners should accept the chairmanship and the Agricultural Department should be represented by experts only The Arbitration Act should be extended to apply to the Punjab, or at least to the seats of such Chambers, so that local disputes could be settled by arbitration of members of the local Chambers At present, the considerable time energy and money that has to be wasted in obtaining justice, or in trying to, in the courts of law, determining a firm from taking recourse to Justice should and could be made more readily available to trade

4366 Trade classification of Punjab deshi Collon -Punjab deshi cotton, according to the rules and regula tions of the Bombay Cotton Trade Association falls into two descriptions, the produce of the Lastern Punjab being recognised as "Bengal" and of the rest and bulk as "Sind Punjab". This classification shows the httle interest that Bombay cotton trade has in the Pumpah for the Pumpah's natural port is Karachi This classification is, in my opinion, fairly arbitrary, as is the fact that the station of despatch is the criterion for grading the cotton either as "Bengal" or "Sind Punjab". This ought to be done away with, and all cotton ought to be classed on its own merits irrespective of its origin. The feasibility of such an innovation ought to be studied by the Committee while in Boulean New Jaconson 14 Committee while in Boulean New Jaconson 15 Committee while in Boulean New Jaconson 15 Committee while in Boulean 15 Comm ought to be studied by the Committee while in Bombay New denominations might, perhaps, be bised

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III.—STATISTICAL

4367 (33) Improvement of Cotton forecast —The cotton forceast, with regard to the crop's yield, is generally much too low. The reason seems to be that the figures are collected through the same channels as Cultivators and landholders have an interest in declaring their revenue lower than it actually the land taxes Moreover, the officials compiling the forceast have, as a rule, little knowledge of the matter they are dealing with Even if very serious blanders occur in the estimates, they are passed on from the lower to the highest organs without being detected. The various defects in the forceasts have been discussed and suggestions for improvements made at conference held in April 1917 in Lyallpur. No, change for the better has, however, been perceptible yet though assurances were given that the matter would receive attention

(2) I would offer the following suggestions, (a)—The forecasts eight to be in the hands of the Agricultural Department. This change alone would result in an immediate improvement

(b) But the efficiency of the Agricultural Department should be further enhanced by increasing its expert European and thoroughly educated, reliable Indian staff. If the service is now not attractive enough for oxport European Agriculturists, it ought to be condered more remunerative. The Agricultural Department can, in this country, become the best paying branch of the Administration and expenditure towards mereasing its efficiency ought to be not only generous, but layish. The Punjab, in 1917 18, benefits by the introduction of American cotton to the extent of about 130 laklis

(3) The Department of Agriculture ought to be in closer and continual touch with trade, and links should be created to bring the two together. The needs of the one should be better understood by the other Both would immensely benefit by co operation. The Dopartment should make immediately available all information having any bearing on the staple trade. Speed is an item of importance. At present such information is given scantily and mostly too late to be of much use. As an instance, I mention, the figure of despatches of cotton from the various stations in the Punjab, which is at the disposal of the Director of Land Records. This figure is not so far published neither it a time nor in a form to be of any use to of Land Records This figure is not so far published neither it a time nor in a form to be o trade. The official cotton crop reports have seriously deteriorated within the last ten years

4368 (35) Publication of Liverpool and Bombay prices —The publication at up country markets of Liverpool prices serves no useful purpose liven the fluctuations of Bombay rates do not at present necessarily affect up country rates. The information might be misleading. In Bombay, the market can, with the present extremely bad traffic arrangements, rise for the same reason as it should drop up country. The attempt on the part of Agricultural Department daily to show the cultivator what rules he ought to get for his lapas on the basis of certain rates inling in Bombay, is hopeless, especially so, as long as they have no expert advice at their disposal. The daily publication of Lyallpur kapas rato in other mandes of the district, stringe to say, has not prevented cultivators from selling their American kapas in Gojra about Rs 2 per maund (Rs 60 per Bombay lhandi) below Lyallpur rates for some time. This shows that the rates ruling for kapas in all the markets of the district should be published in every mandi and not only the Lyallpur rates, for this would attract to the iow markets purchasers from the high mandis

V-General

4369 General suggestions -I may be permitted to put forward another few suggestions to the

⁽¹⁾ To make their roport available to interested parties at an early date

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Mr O HARFLIGER

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(2) Not to confine their work to India but to continue thoir investigation at Hoine, where one of the points to be very deeply studied should be the advisability of adopting the Bremen system of arbitration and the Bremen contracts (clause I and clause II), improvements on which should be considered in consultation with spinners and shippers. The fact should not be lost sight of that the bulk of the Indian cotton was sold in Europe on Bremen arbitration before the war, and if Liverpool has to gain a position of importance and influence as a trading centre for Indian cotton, Liverpool will have to consider the wishes of the majority of buyers

(3) Not to pass away without leaving a living testimony of their labour, in the form of a standing cotton bureau in India, the personnel of which should be recruited from agriculturists and cotton experts such branch of the Department of Agriculture would have wide scope, considering that, after the war, India will be called upon to satisfy a great portion of the world's increased requirements of cotton

Mr O HAEFLIGER, called and examined

4370 (Mr Wadia) I am the agent of Messrs Volkart Brothers, at Lyallpur There are European agents at Lahore and at Ambala at present The Multan agency is under my supervision but I do not much interfere in the management of the business there I exercise some control over it but I am directly in charge of the agencies at Sargodha and Lyallpur I purchase both deshi and American cotton, both Lapas and charge of the agencies at Surgodha and Lyallpur I purchase both deshi and American cotton, both Lapas and ginned cotton. We have our own ginning factories on lease, one at Sangla and the other at Surgodha. We have no ginning factory at Lyallpur I do not buy Lapas at Lyallpur. If I do buy any Lapas at Lyallpur, I have to get it ginned fat Sangla. The ginners here gin cotton only for members of the ginning and pressing pool, with the exception of one factory which is not a member of the pool and will thorefore gin for outsiders. This factory has been taken over by the Japan Trading Company for the last two years. They have taken the factory on lease and they buy Lapas in Lyallpur and at out stations. They won't gin for us though they are not members of the pool. They will not gin for us as they are competitors. The lesses of a factory are not as a rule members of the pool but the owners are. The cotton that we buy is despatched to Bombay and Karachi. So long as the freight arrangements were not as bad as they are at present, all cotton used to go to Karachi, from here. as they are at present, all cotton used to go to Karachi from here. Since last year it has practically all been sent straight to Bombay because the sea freight from Karachi to Bombay has been raised to such an extent that it is cheaper to send cotton direct to Bombay from here than to send it via Karachi most of the cotton that we buy to Bombay but what happens to it after that, I do not know goes to Europe and to Japan Part of it may be sold to the mills in Bombay Probably 1t

4371 I have bought small lots of cotton at auctions in Sangla and Sargodha, but most of our purchases are made in the mandis in Sangla and Sargodha. I find the lapas is in a much purer state than I expected. The admixture on the whole is a very small one. The admixture was heavier at the Leginning of the season than it was last month or at present. I do not pay any commission to the aratyas. It is the zamindar who pays the commission. The aratyas act only for the zamindar and not for the purchaser.

4372 I buy only deshi cotton for forward delivery and not American The banias do not deliver according to types in a rising market, not even deshi Matters seem to be improving in this respect Only a few years ago, it was sometimes impossible to obtain, in a rising market, delivery against a low priced contract and, as a matter of fact, I know of cases in which no delivery was given against a contract and the sellers tried to get out of the contract and quietly managed to do so even in court. During the last few years, people have been a little more reliable. It is impossible, or at least not advisable, to put any trust in a forward contract except that, if the rate ruling at the time of delivery is higher than the contract rate, you generally get cotton mixed or otherwise adulterated or inferior

4373 From what I have seen, deski lapas does not arrive in damped condition here. The American kapas that I have seen at Lyallpur of late, is however very damp. It is damper than anywhere else. I am referring to kapas. I can scarcely believe that it is not damped to a certain extent artificially. I do not know whether it is due to the cultivator picking his cotton early in the morning or by the aratyas purposely damping, but it is done before it is sold in the market

4374 When I buy desh, I get it ginned at Sangla or Sargodha in the ginning factories which we have I have experience of other ginning factories in the district. There is not so much artificial damping leased I have experience of other ginning freteries in the district. There is not so much artificial damping done by them as there used to be I have never noticed anything except that godowns have been sprinkled with water before cotton was stored in them but this is now a days rather the exception than the rule Matters have improved in this respect. The ginning factories mix various quantities of kapas to a certain Those which buy an average quality of kapas in the market mix American with a heavy admixture A slight mixture is one up to three per cent of deshi in or 25 per cent of deshi. The average of admixture is with the American which has a slighter mixture American A heavy mixture is one up to twenty or 25 per cent of deshi. The average of admixture is ligher, of course, than it really ought to be One reason for this is lack of accommodation in the ginneries Many lots cannot be kept apart and ginned separately. It used to be done in the ease of deshi, before the American crop was of any importance. This means additional work and the ginners in the case of American run the risk of not getting the proper price for a purer, ie, better quality They get too good a price for the mixed, ie, lower quality Mixed cotton commands a proportionately better price than it ought to do * I think mixing will disappear by itself As I have already said, I never expected it to be so small as it is this year. I thought that it would not be possible to get from any factory, cotton with less than fifteen per cent admixture of deshi cotton but you can get cotton from factories that contains even less than ten per cent of deshi of the less than ten per cent of deshi. I believe that wilful mixing by the factory owners has not happened this year in Lyallpur to any great extent, with exceptions of course 4375 Most of the ginning factories send their cotton directly to Bombay. The reason why they do not like to sell to us may be because we are competitors in the Lapas market. They fare better if they sell in

out the time to see that the course the property in many ways. Firstly, because they get money as the cotton is delivered. If they sell in Bombay, they have to have recourse to loans and have to wait probably two or three months to get the cotton away from the railway station. Secondly, they have a chance of tendering a lower quality if the market rises, which they have not in Bombay. There is no arbitration here. One or two mills have bought One or two mills have bought lor The only suggestion that market rises, which they have not in Bombay This will tend to eliminate the ginning factory owner as dealer

Punjat]

Mr O HAFFLIGER

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I can make to bring business principles more on lines with Western principles is the establishment of local Chambers of Commerce—If a buyer of importance does not mind being cheated by the factory owners, it means a their that he is not fit for his job or that he is corrupt—himself—As long—as this is so there is no hope of improving matters—I should like a local Chamber of Commerce arbitrating on such matters as in Karachi—Probably overybody even those who have so far bought on forward contracts, and were without any guarantee whatsoever, would like to have a sort of guarantee on local arbitration—If local arbitration became—nore general, it would tend to improve matters a great deal—As to the bringing of ginning factories under control by means of licensing, I should say it ought to be done where it is possible—4376—There is no pool either in Singla or in Singolah—There are four factories in Sangla and about six

There is no pool either in Singla or in Sirgodha In Sargodha but I do not know the exact number at present working I know that there is one which has been lying idle for years. In other places there are pools. There is a uniform charge for ginning and pressing. It varies in each district but not very much. There is only one pool at Lyallpur which comprises Gojra. and Toba Tek Singh There is one pool in Multan in which the pressing rate is lower than it is in Lyallpur ere Here they charge Rs 9 8 6 for pressing per bale of 392 lbs and for ginning The rate is left to the factory owners to decide He has only to pay a pool con I have not got the figures here there is no fixed pool rate tribution on the cotton he gins and not on lapas I do not know what contribution pressers pay to the pool I do not think that the pool profits necessarily come out of the pool ets of the cultivator. The pool at Khanna is one of the strongest pools that I know of When I was at Ambala, I used to buy cotton at Khanna. The cotton rate used to be no cheaper in any place than at Khanna and the lapse rate was not higher than at Khanna anywhere So it cannot be the cultivator who pays the pool profits. The factory owners were all business men who fairly knew what they were doing and they raised the price of kapas out of the savings of their pool to attract arrivals into the market. And although the crop round about Khanna was poor, the prices at Khanna attracted cotton from Ludhiana. These pools at Khanna could not have paid higher rates than Ludhiana if they had not utilized their pool profits for the purpose of There can be a good pool as well as a brd pool purchasing the lapas I do not approve of pools being As long as the pool is purely an formed which affect the quality of the product or interfere with trade industrial one, I think it is not a bad thing because the sharers in it can, with the profits which they make on one side, pay the railway freight on lapas brought into that place from outside. They become by this competitors with the outside market and prevent outside markets from being too low as is, for instance the case in Multan Tho Multan pool pays a contribution to the railway freight on kapas brought to Multan from this line, Lyallpur, Shorekot, Chichola Malian or from the Montgomery line. They pay a certain contribution per mound of kapas to encourage the bringing in or lapas into Multan by which, of course, the zamindar actually profits. Such action tends to level the prices round about the place There are 43 factories in Multan of which about a dozen are working a stopped working and yet they share in the pool. The share of those where there is a reasonable pool There are 43 nectories in many in the pool The share of those Two thirds of the factories have stopped working and yet they share in the pool The share of those Two thirds of the factories have stopped working that they really ought to get I think pools are to a certain extent, where the building of factories is not otherwise restricted, good things because, as you know, the tendency of the Indian merchant or bania or whoever it is that puts up a factory at a certain Next year another man comes along and builds another factory in the same place is to make a profit Within three or four years, there may be three times the number of factories that are The sooner a reasonable pool is formed the sooner is it hkely that the rates for ginning and pressing will be kept at a low level. Such a pool is an asset because it prevents by co operation an excessive number of factories being erected on the same spot. Whenever a new factory is going to be erected, the remaining factories stand together and compete with the new comer or at least threaten to compete with him in a way that will prevent his making any profit out of his venture. This tends to restrict the number of factories. Such a pool is better than no pool. Even if outsiders were to pay Rs. 20 for guing and pressing it would not affect the profits of the zamindars because what we actually Rs 20 for gunning and pressing, it would not affect the profits of the zamindars because what we actually pay to the factory owners, in the shape of excessive ginning or pressing rates, goes towards the cost of purchasing Lapas In Sangla where there is no pool, the pressing rate is Rs 9 8 6 for outsiders but this only means that the factory owner who can charge Rs 9 8 6 for pressing can sell his cotton comparatively changes than the factory owner who can charge Rs 9 8 6 for pressing can sell his cotton comparatively cheaper than if he were only charging Rs 4 or buy his lapas at a relatively higher price than if he had only charged Rs 4 for pressing In my opinion, factories do not really pay very well with certain exceptions, of which Gojra is one I do not agree with the pool in Lyallpur but on the whole I do not think that the factories here are paying too well. They are not very accurate in their calculations. A factory owner starts a factory and deals in cotton at the same time. If he makes a profit in the first year, he thinks he has paid for his factory In the second year and subsequently, his calculations have nothing to do with the real cost of his factory He does not take into account his capital outlay, interest charges, depreciation. They calculate what they please. As to whether, if factory owners were not or anything of that kind buvers but ginned and pressed on commission only and the charges for the pool were kept high, the factory owners would make a good profit, in the long run I should say no Apparently they would be able to do so but nobody would take their factories at least at unreasonable rates. As long as there is the least com but nobody would take their factories at least at unreasonable rates. As long as there is the least competition they enmot enforce anything. Too high rates would attract competition in the next year. Another factory owner would come in and share in the profits and cut their threats. This is what is happening. The ehanged at any time. They have a claim that their concern should be paid for to a reasonable extent. If the erop is small, the pool contribution remains the same. I do not think that they change their agreements according to the condition of the erop. according to the condition of the crop If they have to handle a crop of 50,000 bales and if there is no new compet tion coming in, they are likely to keep to the same contribution if the crop were a hundred thousand bales

4377 Punjab eotton (deshi) is known in Bombay under two recognised trade descriptions "Bengal" and "Sind Punjab" I cannot say whether Hansi and Hissar would be classed under "Bengals" I am not certain about these two stations. It can be ascertained from the Cotton Trade Association, Bombay. Multan cotton comes under "Sind Punjab" Multan is such a small crop that it very rarely goes to Bombay. When it does, it is sold ready for, in Bombay, there is no quotation for Multan. I have already stated in my written evidence, that cotton ought to be classed on its own ments irrespective of its origin. This ought to be done Sind and Punjab deshi are not of the same class or quality. In "Sind Punjab", the qualities that are hought here are so widely different that they really should not be sold as the same thing. They should not be thrown together as one. I would not sell forward Multan or Amritsar under the same classification. There ought to be other names for these which would not betray the origin, the erigin of which may

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howover be known all the same It should not be made a condition in the dehvery that the cotton comes from such and such a station or from any number of stations. As to whether if you wanted to buy a certain quantity, say a thousand bales of "Sind Punjab" cotton, you would know that you were getting a certain quality of cotton, that is exactly what you don't know "Sind Punjab" is a misiomer, it means nothing there is such a variety of cotton in "Sind Punjab" that you really do not know what you got. A large field is evered by that expression and you cannot really know what you would get. You may get the cheapest and most inferior cotton. I will give you an idea of what I mean. Suppose Lyallpur edition is \$\frac{1}{4}\$, the of an inch longer than Khanna. You buy "Sind Punjab" on a certain class and because Lyallpur is better in staple, this will be picked ont by the experts and will be bought by experts and the man who has sold you "Sind Punjab" will buy Khanna and you will get Khanna ind will uccer see any Lyallpur. There is a great difference in quality between the cotton from Sargodha, Gora, Lyallpur and Amnitsar, so much so that I cannot understand why experts throw these all into one heap and say that it is "Sind Punjab". The difference in quality in "Wosterns" cotton from Raichur, Guntikal, Bellary on Bijapur is not so great as between the cotton from Amnitsar and Lyallpur. I would not restrict a certain quality to certain stations arbitrarily and absolutely as in the case with "Bengal" and "Sind Punjab". It is a good field for experts. There is no doubt about it. I have no interest nor has our imm in the matter but it can scarcely be perceived why it should be as it is. I sell cotton from here on types. I would not replace it by uarnes of railway stations. Why should not the business be run on safel lines, why should it be rondered more of a gambling nature? It can be put on a safe bass. For instance, there are two higherms in the Punjab, Rallis and Volkarts, who will guarantee you not only the class but a

There is really no rehance to be placed on arbitration because the cotton is new and it is not known how the arbitrators in Bombay are going to class it. I have no suggestion to make in regard to the feasibility of extending a classification to the whole of India I should like to see the point investigated in Bombay ought to be enquired into at Bombay from the members of the Cottou Trade Association I think, of course, that the narrower the margin of rojection, the better for the cotton expert. It would exclude to a certain extent people from the cotton trade who are not conversant with it. As to what the narrower margin should be, I have not formed any opinion. I consider, under pre-war circumatances, Rs 5 for Punjab American in Bombay to be a narrow enough margin. I cannot accept the classification entered in the rules of the Cotton Trade Association. Instead of classifying cotton according to the name of the railway station from which it comes, I want it classified according to quality irrespective of the railway station I there is to be a limit, then let it be a limit ou a wider basis. For instance cotton from Nabla, Rohtak and other places in the eastern Punjab is only accepted as "Sind Punjab" As you know, "Sind Punjab" is in ordinary times lower than "Bengals" in Bombay. The result is that cotton from those stations used to go to Ambala to be rebooked from there as "Bengals". Nobody seemed to notice that in Bombay There is not that difference of quality between these stations which would really justify accepting one as "Bengals" and not the other The quality varies a good deal according to the season Stations like Jhind, Kaithal, Narwana, Panipat and Sonepat sometimes furnish splended cotton and sometimes very had cotton It depends entirely ou the monsoon I do not see why Punjab cotton which came from any station in the Punjab should not be accepted as "Bengals", if it is as good as Bongal Why should the factory owner have to book it to nother station and then rebook it to Bombay to get Rs 10 more? As a rule, the price of "Sind Punjab" cotton is considerably lower than "Bengals". This year is an exception There are different descriptions for a handful of stations quite close together in the Central Provinces Tho difference between the cotton from these stations is not to be compared with the difference in quality between certain stations which are accepted as Sind Punjab and certain which are not Cotton from Dera Ghazi Khan is accepted as "Sind Punjab" and so is cotton from Amritsar If you buy the two cottons and put one beside the other, the only thing that they have in common is that they are going to be spun. As to whether there should be a sub classification for "Sind Punjah," it is not likely that Bombay will undertake anything of the kind because the position of Bombay as a customer for "Sind Punjab" is only an important one just now. In ordinary times and after the war when Karachi will become more important than it was before the war, Bombay will have no interest, I fancy, in looking to the trade of the Punjab while all the cotton will go to Karachi. It is unnatural that it should go to Bombay. In ordinary times, I should say fully 90 to 95 per cent of the "Sind Punjab" cotton goes to Karachi. Some of it is sent to Bombay trop Karachi, it is true, but the record for the same but her reason for the sam Some of it is sent to Bombay from Karachi, it is true, but the reason for this is that Karachi has no Karachi If there were a cotton exchange in Karachi, Bombay would have little to do with the Punjab The reason why "Sind Punjab" is going to Bombay at present and not to Karachi is that the sea exchange freight from Karachi to Bombay is prohibitive
It is cheaper to send it to Bombay by rul and as no sea
froight for Europo or Japan is available at Karachi at present, the cotton has to go to Bombay in
any case
The circumstances are exceptional
My suggestions in regard to classification are meant to be applied only to the Punjab I would not generalize for the whole of India As long as the gamblers, yeoplo who are not experts in cotton, are kept out of the trade, the trade remains on a sounder basis. I do not think it would be feasible to divide "Sind Punjab" into classes such as Lyallpur, Amritsar, etc, classes, because these would be too small in ordinary times for the Bombay Cotton frade Association to admit If Karachi becomes a cotton oxchange, there is no doubt that the various kinds of Punjab cotton would fall under several classifications The chief point is that the railway station from which cotton is desputched should not serve as a criterion. The difference in value between the cotton from the various stations is often imaginary

4379 I am not in favour of the publication of Bombay and Liverpool prices in up country markets, at the present time. In normal times, I have no objection to the publication of Bombay prices. As regards Liverpool prices, I should say that there are very few people in India who can judge, on the basis of the price in Liverpool, what the rate here ought to be. There is not one zamindar who can do it. Normal conditions in regard to trade between Liverpool and India are not likely to be established for another quarter of a century or for another ten years at least, and there will be great fluctuatious in freight. I think that

Mr O HARRIGER

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the publication of Lapas rates of all the mandis in a district in every mandi in that district is the thing that ought to be done, ie, in the mandis in the Lyallpur district, the prices at Lyallpur, Tandhanwala, Gojra, Jaranwala, etc, would be published So far only the Lyallpur rates have been published at the other mandis in the district whereas all the rates in all the mandis should be published. I do not think that the Bombay rates are any guide to the cultivator at the present time

4380 I have no copy of the Bremen arbitration rules to which I have referred The difference is that the Bremen arbitrators are cotton experts paid by the Exchange and being univarie of the seller and the buyer in every case, they simply arbitrate on sample and do not act for the buyer or the seller as is the case in Bombry at present and in Liverpool. They are absolutely innocent of any partisanship in the transaction. They are neither paid by the one or by the other. Arbitration should be on the Bremen system. I would advocate that the Bremen system should be adopted in Liverpool and Bombry. There are two clauses

Clause I - Includes payment to a certain extent of a premium for better quality by the buyer to the

seller, 1 e, spinner to the shipper

Clause ÎI -Contract stipulates that an allowauce should only be paid on inferior quality and nothing

for superior quality (which is the same as the present Liverpool contract)

These are the two contracts There is no "Sind Punjah" in Bremen or in Liverpool as far as I know These are the two contracts There is only Bengal and Sind Sind and Bengal were chiefly, as far my experience goes, sold under I do not, however, like to generalize and prefer to stick to the Punjab in my evidence

4381 (Mr Holghinson) A copy of the Bremen rules can be obtained in Bombay get a larger share of Indian cotton if the Bremen rules were adopted With the introduction of the Bremen rules, Bremen attracted the bulk of the business from Liverpool No one who is particular about getting a certain quality of cotton is satisfied with the Liverpool contract. I am of opinion that Home guarantee

contract tends to lower the quality of the cotton rather than the opposite
4382 As to the admixture of deshi cotton with American, I could not tell you in a case of admixture of ginned cotton whether it was five per cent I could perhaps say that the cotton contained deshi but not the percentage It is possible to tell the accurate percentage of mixture in lapas but not in ginned cotton I would detect ten per cent but not less I might be able to detect less than ten per cent deshi in American but could not be certain about it. This is why I decline to buy American cotton ready unless Lhave seen the kapas in the process of ginning. That is the only reliable test. In that ease, I could detect any

4383 (Mr Roberts) I have advocated the establishment of local Chambers of Commerce would have to make a start at Lyallpur and the question would be whether outsiders in Sargodha district and stations in the Lower Bari Doah Canal Colony would agree to join the Chamber and sell on its arbitra My idea is to save litigation, to render business safer and to put it on a sounder basis. At present, you have to reckon with a great deal of inconvenience, trouble and even loss on account of litigation. It is unsound to make forward contracts. I should like to have such Chambers not only for cotton but for all At Lyallpur, we have experts who could not arbitrators for all the produce If such an organisa tion were found feasible I would not have five larbitrators. In ease of disputes, the procedure had down in the Arbitration Act should be followed Each party would appoint an arbitrator If one party failed to do so within a week the other party would also appoint the opponent's arbitrator. If the arbitrators failed to come to terms, they would appoint an umpire. Cotton contracts at Karachi are generally If the arbitrators arbitrated on by two European merchants. Up here, Indian merchants of standing should be given a fair chance but, in that case, it might be difficult to find an umpire and therefore the Chairman of the Chamber should in case of need appoint he umpire. To make this effective, no law would be required as the present Arbitration Act could be made applicable to the Punjab in general or to the seats of these Chambers At present it only applies to Bombry, Krachi and Calcutta I do not know about Campore

4384 I advocate a standing cotton bureau or something of the kind which would be a branch of the Agricultural Department and a link between the trido and the Agricultural Department At present they are not as much in touch as they should be Such touch as there is is individual at present. I would have The business of the a standing bureau consisting of Agricultural Department experts and of merchants agricultural experts would be to keep the trade informed of everything in which it took an interest such as changes in the character of the crop On the other hand, the trade would keep the Agricultural Department informed of the changes in tride and the character of the demand. The trade knows fairly well what crop is going to be in demand for some time. There can be no doubt that there will be a very heavy demand. for cotton for many years to come and therefore in order to ensure for Indian cotton that position which it ought to have in the market of the world, it ought to be properly organised on the most modern principles. We want a complete organization to give Indian cotton its proper position

4385 I have already stated that the Punjab will get Rs 130 lakhs through American cotton this I will now explain how this is arrived at Tho yield of American this year is considerably better than deshi My estimate for deshi is four maunds per acre and the average for American six maunds strongthened in this estimate by the fact that up to the 3rd January much more American came in than desht, both in Lyallpur and at other stations. The price of American in Lyallpur was about thirty per deshi, both in Lyallpur and at other stations. The price of American in Lyallpur was about thirty per cent higher than that of deshi. From the 3rd of January the arrivals will be chiefly American. There will practically be no deshi left. So that with an acreage of sixty per cent American and forty per cent deshi, we shall get considerably more American than we could expect on the basis of an equal outturn. There are 267,000 acres of American. It would fetch Rs 5 to Rs 4 per maund less if it were deshi. I have however taken an average difference in value between deshi and American Lapas of Rs 4 per maund and the average selling rate of American Lapas at Rs 19 per maund. If deshi yielded four mannds per acre, those four maunds would be worth Rs 16 more if they were American. This makes, on 267,000 acres, Rs 42,72,000. In addition to this comes the better yield of Lapas per unit of land, which may be two maunds per acre. Let us however out it down at only 1? maunds per acre which the American this your maunds per acre Let us however put it down at only 12 maunds per acre which the American this your yields more than deshi, 12 maund at Rs 19 per maund equals Rs 33 4 per acre, on 267,000 acres roughly Rs 88,78,000 This makes a total extra revenue for the cultivator of Rs 1,31,50,000 I consider R3 130 lakes a conservative estimate. The actual gain may be anything between 130 and 150 lakes

4386 There should be a considerable increase in the staff of the Agricultural Department mean the experts attrehed to the Department. It is not a question of doubling the staff but it is a question of trobling it or even more

Mr O HIERLIGER

[Continued

4387 As to artificial damping, I may say that I have never seen it done by zamindars but I have seen very damped Lapas in the mandis, which I cannot believe has not been wilfully damped. The estimated loss of American Lapas in the ginopener as compared to deshi Lapas is double at least if it is not excessively damped. American Lapas is always damped thru deshi even if not artificially damped. If dampness were morely due to the seed being bigger, it ought to be uniform which it is not. Sometimes the Lapas is actually dripping wet. I did not examine the earts at the recent auctions. I only saw the samples from which the moisture had perhaps evaporated. From those I have seen—I have not seen many—I find that this cotton is not as damped as that which comes into the mandi

4388 (Mr Hodgkinson) I have already stated that the Home guarantee contract tends to lower the quality of the Indian cotton. This is a matter of fact. The Home guarantee contracts are such the lowest quality is exported guainst them. The lowest "Bengal" quality is exported. The reason is that the penalty is very low. I personally watched it years ago. I watched the arbitration against Home guarantee contracts and found that the penalties imposed were insufficient in most eases. Anybody who buys on Home guarantee contract ought to know by now that he cannot expect anything but the lowest quality.

4389 (Mr Henderson) The present situation is that "Sind Punjab" is a very large mea and all the cotton from this area is put under the same trade name "Sind Punjab" though there may be very wide differences indeed between the cottons in this tract. I do not want to talk about all India. The actual effect is that the Punjab cotton in many cases does not fetch its proper price because against a forward contract for "Sind Punjab" a man as a seller can tender anything from any of those stations accepted as "Sind Punjab". He will therefore tender the cheapest cotton against such contracts, that cotton which is the least in demand and therefore inferior. There is no resemblance between cotton from Nawabshih in Sind and the dechi cotton from Lyallpur. They are not the same. You could not in Karachi tender one against the other but you could in Bombly. I do not know what the idea in Bombly is As to whether the result is that a man growing a good quality of cotton does not benefit by it, I think it does not turn could as bad as that because the very fact that the station of despatch is taken as final for the classifier tool enables people to transfor "Sind Punjab" cotton to a station classified as a "Bengal" station and despatch it from there and then to get the "Bongal" rates. As to whether, if Sind cotton was sold out to worm ments and not under classification, it would get a better price it may be so in certain cases. As a matter of fact at the beginning of the season "Sind Punjab" in Bombay was about Rs & to Rs 10 below Bengal and now it is a rupec higher. If cotton from here were accepted in Bombay against "Bengals" as it is entitled to be, this difference would nover have existed from the beginning but Bombay required to see the arrivals to form an opinion of the present crop of the "Sind Punjab" and it was only after having seen them that they raised the price to the lovel of "Bengals". The whole system of classification should be overhaled. That is a most important matter. It is possible that this cumbersome cla

4390 As regards Japanese buyers, I should say that they are not yet experienced in up country business. I do not consider it necessary that other countries should send out buyers in order to meet competition, particularly if the Liverpool arbitration rules are changed.

4391 As to the argument that any endowour to encourage the growth of long staple cotton in India would practically mean exploiting the country for the bencht of Lingland, I should say that it might as well be said that America was being exploited on behalf of Lanenshire. From the point of view of internal economy, it must be considered a good thing if the exports from the country increase in value and volume. The long staple cotton grown in India would be taken in plargely by Indian mills but Luropo would also have a chance of buying

have a chance of buying

4392 (Mr Roberts) I im not altogether in favour of the publication of the Bombay prices in the mandis. At the time when the notice boards were put up ind the rates for the Sind Punjah were given, the Sind Punjah rate in Bombay was considerably lower than the local rate here. The prices here do not follow the prices in Bombay now because of the disorganized railway traffic. In ordinary times they do fairly well but you can not take the Bombay rates for "Bengals" as a basis for Ly allpur nor are the Sind Punjah rates reliable. This is mainly because of the classification question. I am not against the principle of publishing prices in mandis, but I am against the publication of information valued is misleading. Lately, the prices in Bombay have risen to about double. Prices here are, in my opinion, too high compared with those of Bombay, with the present booking and traffic arrangements. I expect a slump in prices here, i.e., a widening of the margin between Punjah and Bombay rates, because at present rates the market requires hereps of capital which is not at the disposal of factory owners.

1393 In connexion with the classification of railway stations, I would not advocate the prohibition of the movement of kapas even if the classification were altered. It would interfere with trade, and would strengthened the pools especially unreasonable ones

1391 (President) As a remedy for such practices as mixing, unjust weights and in the general interests of commerce and trade, I would rely on the creation of Chambers of Commerce. That would have a strong educative influence without legislative interference. I think they would be a great help. I am not in favour of pools but I say that in certain places they are good within reasonable limits.

4305 As regards the statistical side of cotton, the areas shown in the forcersts, I think, are accurated at the figures of outturn could be improved if the work were taken over by the Agricultural Department which would have to be strengthened both on the European and the Indian side. As to ginning and pressing returns, I think that they should be made compulsory. At present they are useless and even harmful because they are not complete.

4396 I am in favour of bringing the Agricultural Department and the trade much closer together by the establishment of a central Burcau consisting of agricultural experts and traders so that the question can be looked at from the proper point of view and the question of Indian cotton put in its proper place in the

world's market

4397 I think that the publication of the evidence before the Committee would be useful to us and also to other men in the trade

Mr H M Vander

Mi H M VAJIEDAR, Cotton Selector and Commission Agent, Kaiachi

LYAMINI D AT LYALITUM, JANUARY 14TH, 1918

Written statement

I -Achieui tural Lali menci

(b) " Desha" long staple cotton

1398 (10) Experience -I have experience of Karinja, Akola, Hinganghit, Amrioti, Birsi, Karichi I was at Karinja two seasons, Akola, Hinganghat, Amr ofrand Barsic choncreason, Karreln and Lyallpur

five years and Lyallput six seasons
1399 (11) Varieties —The varieties of deshalong staple cotton grown on the districts with which I am e equainted 710 bane at Ker nia and Akola and bam at Chanda and jare and Telanga at Hing night Brist long stepled deshi cotton was arriving from currounding villeges or sti tions and was distinguished by such names of Kirklee Bhonsa, Latur, Bid, Mukhed, ote In the same manner at Karanja and Al ol valso, such as Digus, Mangrule, Mangrulo Pir, etc., at Karanja and Hingoli, Bas im, etc., at Akola of about fifteen ye rs ago

1100 (13) Yields and profits and comparative returns—As to the difference in prices between long stupled deshi and short stupled deshi, the average vas Rs 5 to Rs 6 per in sund ligher for long stupled and Rs 9 to Rs 10 per me and (\$21bs) in the case of American over that of deshi short at apled in the Punp b

1101 (15) Conditions affecting increase in area —Anday by day there is going to be good demand for long stapled cotton and the prices paid for it erevery untel higher than those of deshi short stapled at present. I do not think deshi long stipled cotton crop will decrease but on the contrart, the are a of such cotton will mercase in the long run in the place of short stapled cotton. Chartie conditions arrigation, competition with food crops and labour supply will affect the mercase

4102 (16) Suitability of existing varieties -In the Lyallpur, Montgomery and Syrgodia districts, superior types of deshi long stapled can be introduced but as American line now already been successful, I doubt whether the cultivators would now take up the foreign unl nown variety of deshi long stapled seed 4103 (17) Prevention of mixing of different varieties—I would like to recommend to the cultivators

to follow the system of Risslandlas Nos 15 and 17, particularly to get deshi short stapled cotton plant rooted out in its infancy when detected in the field, from the long stapled deshi or any long stapled exotic cotton, and they should be informed fully of the advantage of selecting the pure seed of long stupled deshi or exetic cotton in order to get the better prices and improve the quality

(2) As to the mixing in the factories, if very long experienced cotton selectors are engaged, it will be an orded onticely. By their treet, alill and continuous watch no mixing of client stapled with that of long stapled can be preceived in the factories. This I am writing with my personal experience of six serious in the

Lyallpur district

4101 (18) Uses of seed and seed selection —The seed is used generally for fedder purposes and a small portion at the end of the season for sowing. It can be recommended for extracting oil as well. The selection is practised very well by the Lyallpur Agricultural College, which is worth copying in all other dis triets as well, whore such arrangements are possible. Sometimes the ginners are also keeping the pure seed of American soperate for sowing purposes. Specially hand ginned seed is not selected 4405 (19) General conditions—I would like to recommend to spread the knowledge of execulty.

hundling the kapas whon picked from the fields as the present practice is quite objectionable picked in dry we ther aid no vellow kapas should be inixed with the good one and no le if should be taken along with the kapas. The lapas should not be allowed to fall on the ground and thus get inixed with dirt and leaves. These remarks are applicable in all the districts of India, generally, where careful picking is not Thus a good deal of labour, time and extra expenses will be saved in the factories and the cultivators will get a good promium in prices over lower qualities of the same description. The loss percentage also will be loss. Before I a me to Lysilpur, the lapas and cotton were handled in the operation very carelessly and with my persu tion and tact the practice has been improved to a certain extent and there are still more chances of improving the cotton in the factories, while ginning and pressing, if the giniters and buyers would evic to do it jointly. In my oral ovidence, I can describe them fully

(e) Laotie cotton

4406 (21) Varieties -At Lyallpur Amoric in cotton is grown

4107 (25) Conditions affecting increase in area -Insufficient supply of count water at times, climatic conditions, competition with food crops, limitation of rotations, labour supply and absence of careful meo sclection of seed would affect the mercaso

4408 (26) Suitability of existing varieties—Tho right variety of exotic (American) is pushed on but African and Cambodia, which are longer in staple thru American, can also be recommended as a tird

4409 (17) Prevention of mixing of different varieties -I would lile to recommend strongly, 15 stated before, to the mill owners and experters to engage only well and long experienced cotton solutors and purchasers, who know the long stapled variety perfectly well in all respects and who can also by then expersonee and thet persuade the ginners to gin simply the pure qualities soperate and this encourage this indus try in the right direction, not minding oven if a slight promium is paid to the ginners

(2) If the deshi long stapled cotton is also silky and similar in staple to that of evotic cotton, I do not

think it objectionable for its mixing in small quantities
4410 (28) Importation of seed —To my knowledge once the late Mr Jamseth Tata imported the Fgap tian soed into India but it was not snecessful and I personally saw some fields of Lgyptian at Nagpurettael cd by black insects and thus it failed

4411 (29) General economic conditions—As to the improvement of the plant the cultivation of cotton should be entrusted with the right mon and at the right places. The ginners should be also well experienced and they should engage good, clover and well paid fitters in order to set the gins for long strpled cotton

(2) Establishment of seed frams is recommended. District staff is necessary so as to guido the cultivators in the right direction. Mon in the buying agencies should be well experienced of long stapled

Mr H M VAJIEDAR

[Continued]

eotton of that district. Quito new and raw selectors and purchasers are hable to be defrauded easily. So regulation in the buying agencies is necessary. The guiners also are to be explained fully in the beginning as to the advantage of ginning pure cotton separately. It is no use complaining of the mixing of the deshi short stople cotton in the long staple. American unless the mills and experters care to engage well and long experienced cotton selectors and then there will be no need of cotton regulation in ginning factories

II —COMMERCIAL ASPECT

4412 (30) Local trade customs -The loose machine ginned cotton is not brought into the Punish markets as in Berar, where there are regular cotton markets with a large compound in which the larges mediane guined and living guined cotton in boras arrivo early in the morning for sele. The local mediane guined cotton is not brought into the market compound but only from surrounding villages, where there are guining factories but no presses. The local machine guined cotton boras are taken to the bny crs' compounds in the press factories, where the samples are approved of and the prices are settled. In the Punjab, the buyers have to go to the ginners' cotten godowns to select the cotten in different lights which makes the selection difficult. There is no system of advancing money to the cotten sellers, but there is one in the case of forward Lapas sellers in the Punjab. There is the system of forward buying of cotten on contracts, but when the prices advance even eight anna per maund, there is sure to be a dispute about the inferior quality and trouble and annoyance to both the parties in the absence of any cotton association

(2) I would like to suggest the establishment of eatton associations founded by the ginners and cotton buyers jointly in all the important districts of India where, in the case of any dispute, the buyers or the sellers can go on arbitration. There is not a single such association in the Indian districts where there are many cotton milis In that case, future buying on contracts can be safely and largely practised by the

cotton mills and trades

4413 (31) Standardization of commercial names —The commercial names of the various grades presently given may be continued But this is to be noticed that inferior cotton of one station (in loss form or pressed bales) is now despitched by bullock cirts to the next station say ten or twelve miles where a better grade is evalable for pressing or despitch to the Bombay and Karaclu markets. The commercial names of cotton are given from the names of the districts or statious where the cotton is produced or pressed. It is difficult to standardize the commercial names for the cotton of the same locality but it is left to the buyers' selectors to find out and judgo whether the particular cotton, which is to be delivered, is of the same locality named

4414 (32) Buying agencies —The best form of buying agency, in my opinion, is not to be prictised

unless some sort of cotton association is established in all the large important cotton centres

III -STATISTICAL

4415 (34) Improvement of statistical information —I think the cotton presses return and the loose cotton quantity sold without pressing could be made of good use, if correctly noted, for statistical purposes 4416 (35) Publication of Liverpool and Bombay prices—The daily publication of Liverpool and Bombay cotton prices at up country markets will be useful to all the cotton and lapas traders but now a days these prices are already received by private firms duly from Bombay or Karachi

Mr H M VAJIFDAR called and examined

4417 (Mr Wadia) I am a cotton selector in Karachi as woll as Lvallpur and other districts where I I am not working for any firm, I am doing my own business. I used to work for Messrs. Goddum & Co in Lyallpur My headquarters were in Lyallpur but I used to move about in the neighbourhood have two years experience of Karanja, Akola, Hinganghat, Amraoti and Bursi and know the cotton grown in the various districts. Marketing in the Punjab is not satisfactory, as compared with the Berar districts. Tho system of buying and marketing here is quite different from that in Berar Berar has municipal markets, especially near the factories. All the factories are situated round the markets. The carts of Lapas Bergr has municipal The corts of Lapas and looso cotton in boras used to collect in the Berar markets in the morning and the sellers, and purel asers, brokers as well as cultivators, used to come there and settle the bargains. When the hargains were settled, brokers as well as cultivitors, used to come there and settle the bargains. When the hargains were settled, The Lapas and cotton carts bought by the geners and cotton merchants used to go to the compound of the gnning factories and presses where they were weighed by the municipal men and not by the buyers men. The buyers cler's used to take down the figures, as the carts were weighed by the municipal men. The buyers as not able to interfere with the weighment and there were no disputes as regards weighment. Here buyers have to go to the compounds of the ginning and pressing factories. In Berar, the sellers have to go to the buyer's compound. I would lil ethe same system, as in Berar, introduced here and the weighment and everything else he ranged by the Municipal Committee. In Berar, a tax is lovied on each cart which comes into the market compound. The Committee used to give a ticket to the cartman and charged one anna per cart. The number of carts that actually came in was noted down and, in the ovening, reports used to be issued showing that so many carts had arrived and that so many purchases had been made by the buyers. A list was printed of the different

4418 Cotton varies much in quality in different districts. Certain stations have got certain names If a forward contract is made in Karreli, the name of the station is not mentioned in the contract but only "Sind" is written. The Punjab is not mentioned, as it has got a very had name regarding quality and grade. There is mixing of cotton, and sometimes cotton of an inferior quality is put forward against Is mixing of cotton and sometimes cotton of an interior quanty is particular. Buyers do not like to make forward contracts for Punjab cotton in Karrelii. They often for such contracts. There is much mixing of different kinds of lapas in the ginneries of the power ginned separately but is mixed with superior lapas. The two qualities forward contracts always prefer Sind cotton for such contracts When inferior lapas arrives, it is never ginned separately but is mixed with superior lapas

are only ginned separately if a premium is paid for the superior quality

4419 I have not seen much damping in the ginneries. I have seen deshi cotton dry and American cotton damped I attribute the damping to picking in the very early morning I cannot say whether there is any artificial damping or not in the cultivators' godowns

4420 I had experience of this American eotton first in Lyallpur when I had to purchase it for Messrs. Gaddim & Co Before I came, there was no American In the first season, there was none, in the second

Mi Bansi Dhar

sees on there was a very little and in the third season I begin to purchase it I nover used to purchase kapas, I used to purchase cotton from the ginning factories I used to proper the semples myself in the ginning factories and purchase according to my orders. I ecunot got much American pure here because I arrived late this season. I was not here lest second a I was doing business in Karechi

4121 Buyers ought to get good mon to select their cotton Many buyers are not competent enough to do the work I would lil o to have associations like the Bombay Cotton Irede Association in all the im portant districts of India I have some experience of the Bombay Cotton Trade Association and their rules, which work satisfactorily as well as those of the Cotton Exchange I am selling cotton in Bombay under the rules of the Bombay Cotton Trade Association and the Bombay Cotton Exchange There is one defect in the rules of the Bombry Cotton Trado Association and the Bombry Cotton Exchange When I wanted to sell cotton from Karachi on dook delivery terms (i.e., when I wanted to give delivery in doel in Bombry), they both refused although alf the cotton from Karachi goes via ser I did business with private firms on those terms The Bombey Cotton Trade Association wrote saying that they were going to put the matter before the Directors. After a weel they replied that they could not allow it and that the cotton could only be sold on rail delivery terms. When I told them the some firms were buying from me on dock delivery terms, they said that it was a private matter. That cheels business for when selling on dock delivery terms both buyer and the soller save some expense. My suggestion is that the dock delivery terms should be similar to the railway delivery terms. That is the only alteration I desire to be made in the

1422 In regard to "Sind Punjeh" qualities and grades and prices, "Bengal" prices used to be higher than 'Sind Punjeb' prices before the delivery of the crop commenced—133 twelve months before When I argued with the Cotton Trede Association about it, they said they could do nothing to them when the cetten arrived in Kenneli, that the Sind quality was better than Beng I this season, these could not do anything to get it a better price. Now the price of "Sind Punjab" is higher than that of "Bengals," but there is very little difference—only Ra 5. There is no regularity in this difference. Speculation is going in "Bengals," but not so largely in "Sind Punjab." Sometimes the staple of "Sind Punjab."

is botter than that of 'Bengala"

4423 (Mr Hodglinson), I have no special experience of IF American cotton but I have some experience of American cotton generally. I do not I now if it wis shipped to Europe. The American cotton can spin up to 20% to 30% counts. I cannot see whether that is warp or well as I am not a spinier. The staple of Hingaughet deshi was exclosed as that of American. Very little deshi long steple cotton is grown in the

Punjal:

4424 American cotton contains a larger percentage of moisture than deshi cotton but I could not say to what extent. My experience was that when dry American I apas was stored in the godowns, and taken out after a fortught or so for ginning, it was damp. When I used to advise drying before ginning, the cinners did not pay any heed, and so I found erushed seed in it after it had been ginned. After drying, the steple was shorter than before because it was dried too much. So I advised drying for one or two hours and when they did that, I found that it was quite all right Drying too much affects the staple

4425 (Mr Henderson) As a general rule in Karachi, Sind cotton gots from twelve annas to Re 1-4 a mound higher price than Punjab according to the quality. Sind is always considered a better cotton than that of the Punjab, sometimes Multan is equal or super or to it. This year Lyellpur is better than Sind Multru cotton is sometimes short On an everage Multon is equal to Sind in price as well as in quality

staple and sometimes good staple

4426 (Mr Roberts) I favour the establishment of local Chambers of Commerce Cracs of disputes could be settled on the arbitration of the Chamber The decision of the Chamber should be binding on both Cracs of disputes could parties The parties should not be able to go to litigation after the decision of the Chamber Chambers would be a great help

4427 I have a good deal of experience of American cotton from 1910 I was one of the first buyers of In 1910 11, I paid a certain emount of premium for it I purchased it in Lyallpur, also Risalwela the cotton

American cotton in Lyallpur and at Jaranwala

Mr BANSI DHAR, Agent, Messrs TATA, SONS and Company, Lyallpur

Examined at Lyalleur on the 14th January, 1918

No written statement was submitted by this witness

(Translation)

4128 (Mr Hodglinson) I am the agent of Mesers Tata, Sons and Company et Liellpur I have been buying American cotton at the Government auctions on behalf of my firm for the lest three years have attended fourteen Government auction sales this year. One was stopped on account of rem

auction sales were held here the year before last and cloven last year
4429 I consider the staple of the American cotton irregular. It varies from 85 meh to 1 35 meh cotton on behalf of my firm and send it to the Empress Mills, Nagpur All the cotton I buy is used by my firm They do not sell any The Empress Mills use it for 24s warp and 32s weft

1130 I do not think that the cultivators intentionally damp cotton but thos expose it to the night

dow to got it damp
4431 I think that the ginning percentage of the first errivals of cotton in the merket at Lyallpur is 33

It is less in the case of later arrivals and the averago would be 32 per cent

1132 (Mr Wadia) In addition to sending cotton to the Empress Mills, I also send it to the Swadeshi
Mills, Bombay to the Standard Mills Bombay, and Tata Mills, Bombay. I bought kapas at the auction
sales yesterday equal to 700 bales of lint. I bought "A," "B," "C" and "D" classes. I do not find
any mixture of deshi cotton in "A" class. The "B" class contains a mixture up to two per cent. In the
"C" class the average is four per cent. The "D" class is not pure IF but all other Americans. It
may contain some murpe cotton. If you examine the seed of "D" class, you will find four different
colours—one green, one black, one nearly white and one yellow or rather Thaki. The yellow seed means
that it is unappecation. The kapas of the yellow seeded cotton is very weal in staple. Lest year the best

Rai Bahadur Ganga Ram, ClE, MVO

vala This year the Montgomery crop is better in regard to length,
Altogether, the total sales of American cotton so far have been eotton came from Lyallpur and Jaranwala strength and quality than last year I estimate that there are 25,000 bales yet to come I calculated these figures on the 10th I buy on limits received from my firm in Bombay In former years Punjab American 60,000 bales ootton was sold at less than Broach in Bombay but this year it is Rs 20 per thandi higher than Broach for two years, the Bombay Mills were not ablo to appreciate the quality of this cotton. Even now, most of the morchants in Bombay and Alimedabad do not appreciate the quality of cotton. I should say that five eighths of the merchants do not know about the better quality of this American cotton. In Ahmedabad, there are altogether sixty mills, of which there are only five or six mills who buy here

4433 I find great difficulty when I buy cotton at the Government auction sales. I think that the quantity bandled is increasing so rapidly that there is considerable difficulty in dealing with it. At yesterday's auction, 16,000 mainds of cotton was brought for sale. The weighing it and taking it to the ginning factories takes a considerable mount of time. I think to avoid difficulties, all the earts should not be brought to the auction sales. The sales might be on samples from each eart of the A, B, C and D classes. After the auctions were over, the zamindars' carts might be ordered to go direct to the ginners who had bought the If this system were adopted, even better prices would be realised at the auctions and the difficulties of the buyers would be removed. An auction was held at Okara on the 6th of December 1917 where both ready and forward cotton were sold. "Ready" lapas fetched Rs. 198 per maund and "forward" fetched Rs 20 1 on condition of delivery within one month All the cotton I bought at Okara is still lying at that station I cannot remove it to the ginning factories owing to railway facilities having been stopped The ginneries at Okara have already had the cotten they purchased, ginned and pressed. The cotten by at Okara is ginned at Racwind at Rs 13 2 per bale. What I have purchased here will be ginned in the factory which we have recently purchased here. In former years as none of the ginning factories here gave us any facilities, I used to get my lapas ginned at Chak Jhumra. The rate for ginning at Chak Jhumra two years ago was Rs 11 6. Last year it was Rs 13 8. This year before we bought the factory, the charges were Rs 17 8. In my own factory the expenses will work out at Rs 10 8 per bale.

4434 My firm would not allow me to join the pool at Lyallpur Their action has broken the pool here four or five days ago. Smeo tho pool broke up, the other factories will not give out their rates as they are

only ginning and pressing the cotton they purchase for themselves

435 On the Montgomery line, all the cotton buyers including Messrs Ralli's and Volkart's and the
Japanese have agreed that they will pay Ro 1 to Re 1 8 premium for American cotton over desht cotton.

The premium this year ought to be Rs 4 8 according to the Bombay rate. In Lyallpur also, the buyers pay
a promium of Rs 3 8 for American cotton. According to the Bombay rate, the premium at Lyallpur should
be Rs 4 8 as there are very few guineries in the district. I am talking about the American cotton sold outside the auctions

Rai Bahadur GANGA RAM, C.I.E., M.VO, of Gangapur

EXAMINED AT LYATTPUR, JANUARY 15TH, 1918

Written statement

4436 Preamble - My business is in charge of my sons Rai Salub Sewak Ram and Lala Balak Ram, the agricultural section is in charge of the former and the industrial and commercial part in charge of the latter I enclose their notes* and confine my own remarks to general observations and suggestions tending to

meet the objects of the Cotton Committee
4437 General suggestions—The first and foremest point to which I should draw the attention of the Cotton Committee is the desirability of extending *Lharif* cultivation by bringing as much water in the canals during *l harif* as the Department can possibly do I was surprised to hear in the wheat conference held in Simla in the last season, from the two Chief Engineers of the Punjab, that even with the present sectioning of canals they could bring more water, but there was no demand I have something to say in regard to

(1) let water rates on all fodder crops, grown as *lharif* crops, be remitted, such as *juar*, *gwara*, cte, the loss being made up by rusing rates of more profitable crops. This is very important from the zamindar's point of view, as the absence of good fodder greatly liandicaps the breed of good cattle on which all the agricultural operations depend

(11) No charge should be made, if I harif water is used for ploughing lands, whether followed by rabi

or not

(iii) Some system as I have described on page 49 of my pamphlet should be considered, as no extension of cotton cultivation on mundation canals is possible unless one watering (in March-April) is given by pumping
(iv) The machinery for ginning and pressing may be made available by the Government on the hire

purchase system

(v) As already mentioned in my evidence before the Industrial Commission, the number of ginning and pressing factories should be brought under State control, so that mushroom factories should not multiply and the present pool system should be made illegal

(vi) Long staple cotton such as roseum in Central Provinces should be acchinatised and experimented

upon by the Agricultural Department so that it can be profitably introduced in barani lands
(vii) Suitable cotton seeds should be discovered for hills and zamindars should be encouraged to Arrangements, however, will be necessary through eo operative sow suitable varieties of cotton in hills societies to surply thom good seed and to buy their products

(VIII) More favourable rules as to grazing and more extended use of forest leaves as manure may be given by the Foiest Department against whose gluggisliness, obstruction and oppression, I bave made

sorious complaints in my evidence before the Industrial Commission

(ix) For the more successful and economical working of ginning and pressing factories, more liberal treatment should be given by Banks for working capital. The strict rules of hundre in Presidency Banks should be modified so as to provide working capital for a period not exceeding six months on security of landed property with ample margin

Rai Bahadur Ganga Ram, CLE, M.VO.

[Continued

Rai Bahadur Ganga Ram, oie, myo, ealled and examined

- 4438 (President) In my opinion, machinery for giming and pressing should be made available by Government on the hire purchase system as this would enable Government to exercise more control over the machinery. This is a general principle which is applicable to all machinery. I am very much in favour of bringing gimning and pressing factories under State control so that mushroom factories may not multiply and the present pool system should be made illegal
- 4439 In my written evidence, I have advocated the extension of roseum. I did this because when I went to the Central Provinces. Mr. Clouston showed me a number of experiments with a high I was rather impressed. The Agricultural Department should give us the best deshi cotton seed available which would be suitable for sowing in Tune in tracts where American cotton is impossible.
- 4440 If Government were to grant more liberal terms to the zamindars in the hills, I think they could grow very large quantities of cotton there—I have seen cotton growing in the hills and consider that large areas would be available for the extension of cotton cultivation there with profit both to Government and the zamindars who are very poor, Co operative societies should buy such lapus from them
- system should be abolished. I stated that 60,000 maunds of lapas was the least that would enable a factory to pay. This amount should therefore he fixed as a standard. So long as any factory did not exceed that limit, no more factories should be allowed to spring up. The factory owners would themselves move their factories if there were no subsistence left for them. It present the only course for them is to join the pool system. By joining the pool, a certain number of factories do not work but they get their share from the pool. The only way I can suggest to abolish the pools is to make this sort of combination illegal because it indirectly affects the amindar. I consider that Government should under take legislation for the abolition of pools.
- 4442 As to damping and adulteration, my views are that so long as it pays a person to adulterate and damp cotton, he will do it. It is for the Bombay people to put a very high discount on adulterated cotton. It is for the buyer to penalise adulteration and damping. So long as the Bombay people do not help us, there is no way out of the difficulty. There my cotton separate. I do not mix it. In Gangapur, the only man who can keep cotton separate is the producer and the ginner. I am getting Ra 56 for the American cotton. I grow at Gangapur against Ra 54 for the ordinary bazara American as my cotton is pure but if I mixed my cotton, I could get much more money for it. I am not an expert, so I cannot say whether the buyers can or cannot detect a mixture of five per cent or ten per cent of de hi cotton in the lint of American cotton. I would suggest that ginneries should be liceused. I would make it a condition that if a ginnery was found to adulterate or damp cotton; its liceused. I would make it a condition that if a ginnery was found to adulterate or damp cotton; its liceuse should be withdrawn or a penalty imposed. I have heard of artificial damping being done in this province. It is done even by exporters in their own factories. They never press a bale straight from the gin. After ginning they put the cotton is godowns. From godowns the cotton is put into boras, the boras are then put outside in the dew for the ginners have nothing to do with it.
- 4443 As to whether pressing factories should be licensed also, the licensing of presses would naturally follow the licensing of gins. The fault is not that of the pressing factories. It is the exporters who are at fault. The exporters hardly ever buy pressed cotton, they prefer to buy ginned cotton and to have it pressed themselves in order to get the profit. They sometimes say that damping improves quality or rather the look of cotton. I cannot say if damping is necessary to improve the quality of cotton. I was advised at one time to try lumidifiers for the purpose of increasing the weight of my cotton but did not do so. If adulteration were stopped, better prices would be given to the zamindars. Last year I got better prices myself. We keep our cotton perfectly pure. My agent states that when our cotton came in for sale, the purchasers were eager to buy it. I showed the offers to Messrs Townsend and Roberts who advised me to keep the cotton pure. The Bombay market would respond to purity. If there is one per cent adulteration, they should make a rebate of five per cent. Of course, there may be trouble about distinguishing a small percentage of adulteration. The expert surveyors at Bombay may perhaps be able to discover it.
- 411. As regards the moving of factories from one place to another, I would advocate the encouragement of such a removal by the grant of land, concessions in the matter of railway freight, etc. In some places in the Punjab; matters have gone too far, eg, Hansi and, I think, Lyallpur also. I do not think that any greater abuse of the Factory Act goes on in ginning factories in the Punjab than in the Bombay mills. I am not in favour of too much supervision over factories. If supervision is carried too far it may injure the industry. I have stated in my written evidence that for the more successful and economical working of ginning and pressing factories more liberal treatment should be given by banks in the matter of advances. The ginneries are now losing at least Rs. 3 to Rs. 4 a maund owing to lack of railway facilities.
- 4415 No bank would advance money on the security of pressed cotton here. If the banks could come to our assistance, it would be very helpful. This year we have felt the pinelivery much indeed. I would suggest the establishment of Trade Banks in each province. The rules of the Presidency Banks in regard to advances are very strict and should be modified. The Presidency Banks only advance money on hundis signed by two parties, i.e., one party draws on the other. They will not advance money on the security of steek. That makes it very difficult indeed for small persons or individual traders to get advances but it is very easy for a ring of Marwaris to get round it and they do so without being detected by the bank. They have a ring of firms in different places who draw on each other, and can go on getting any amount of money. We cannot. The co-operative system does not affect trade. It only affects the zamindars in the way that they can get loans for domestic and agricultural purposes. What we want is co-operative banks that will advance money on the security of agricultural produce. The co-operative banks will not advance money on the security of land which means that they will not advance money for purposes of trade. I do not know about the Bank of Madras or the Bank of Bengal certainly does not advance money on the security of produce.
- 4446 (Mr Hodgkinson) I was the pioneer in the matter of saw ginning about four years ago. When the saw gins were first started, I got a premium of Re I per maind over roller ginned cotton because the colour of the lint was so good and the outling was so clean and nice. But after a few helps were sold the

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oxporter refused to buy any more as they said that the staple was injured. After waiting for two years, I serapped the saw gins and kept them in my godown. This year Messrs Ralli Brothers offered me half the price I had paid. I was glad to accept it. They have put the gins up in Sind. I tried 4 F also in the saw gins. I cannot say whether saw gins would work more satisfactorily with longer staple cotton. They save a tremendous amount of labour, produce a very good colour and clean the cotton theroughly I do not know why the exporters were unwilling to take saw ginned cetton four years ago and why they are willing to take it now

4447 Mixing is not the fault of the cultivator but it is the middleman who does it because it pays him ose By mixing they make a little money. Mixing is done simply because it pays.

4448 (Mr Henderson) Some sort of modification of canal rules is necessary in the interests of zamındars as well as in those of the Canal Department I have often been told as regards my pumping schemes at Gangapur that I take more water than other zamındars but the fact is that I take it for half the time that ether peeple de This is a point to which I wish to draw special attention What I have found by experience as a cultivator is that if water is given in sufficient quantity for a less time it goes further than a driplet all the year round. I have brought an extract from the Gangapur pumping register for the last three years showing for how many days annually I have been pumping (Annexure II) I only pump for about 160 days out of the 320 days on which the eanal runs. This year I have not pumped for more than 120 days. This shows that, if double the quantity of water were given to each outlet and the time were reduced to one half, you would get a better duty than what you are getting now. I advocate the modification of any what we getting the proof of the proof tion of canal rules so as to admit of larger supplies being given for shorter periods. The word "eusce" really means nothing. What is wanting in regard to it is to introduce one of the mest important mathematical really means nothing factors which is time Somo new name should be invented showing for how many hours a cusec runs. A statement that the duty was 400 acres per cusee does not show for how many hours the cusec ran. I put in a statement (Annexure I) which I have prepared in which I have proved that if my system were followed, double the quantity of water could be given in half the time and yet all the crops could be mitured
4449 It is difficult to give the cost of pumping on my estate each year, as we do not keep a separate

account for fuel, etc I estimate that it costs me Rs 4 per acre to pump the water eight feet. My estate is 2,500 acres in extent. It therefore costs me Rs 10,000 to mature all the creps. It is very difficult to differentiate the cost for each crop because the establishment is the same for all. The cost of pumping ten feet is about the same as for eight feet. Lhave got one fourteen meh pump and one set of twelve and ten meh pumps on my estate. I pay half canal rates All the canal rates together for flow come to Rs 4'per acre. I pay Rs 2 per acre lift rate. If my estate were irrigated by flow, it would cost me Rs 10,000. The Department gives me a remission of Rs 5,000 and thus I pay Rs. 5,000. The pumping actually costs me Rs. 10,000 so that I am Rs. 5,000 to the bal. I actually pay Rs. 2 more per acre because

my estate is situated on high land

4450 (Mr Roberts) My general idea is that, to increase cotton cultivation, you will have partly to decrease the area under wheat. Since it is not desirable that the area under food stuffs should decrease, it should therefore be possible by increasing the supply of water in kharif to grow more coarse grains to take the place of wheat What you lose in foodstuffs in the rebi, you will gain in foodstuffs in the kharif For instance, if you give one watering to gram in Soptember and let it take eare of itself I think seventy per cent or eighty per cent would be matured. No rabi watering will be required. I strongly advocate that the system of one watering should be adopted for gram. I also advocate that more juar should be grown and allowed to ripen so that the grain can be used as a food and the karbi (stalks) as winter fodder. That is the rosson why I strongly advocate the increase of the Lharif water supply In my opinion, there is plenty of room for more intensive eropping, especially if you allow for mixed eropping
4451 In my written evidence, I have referred to the statement given by the two Punjab Chief Engineers

before the Wheat Conference that they could provide more water even with the present sectioning of the canals but that there was no demand for it in kharif. I have mentioned that they could grow more coarse grain in the kharif. The great mistake which was made in the Cherab colony was that it was given out that the rabi would be $\frac{1}{2}$ this and the lharif. The present sectioning of the canals but that there was no demand for it in kharif. I have mentioned that they could grow more coarse grain in the kharif. The great mistake which was made in the Cherab colony was that it was given out that the rabi would be $\frac{1}{2}$ this and the lharif. The present sectioning of the canals but that there was no demand for it in kharif. I have mentioned that they could grow more coarse grain in the kharif. The great mistake which was made in the Cherab colony was that it was given out that the rabi would be $\frac{1}{2}$ this and the lharif. The present sectioning of the canals but that there was no demand for it in kharif. I have mentioned that they could grow more coarse grain in the kharif. The great mistake which was made in the Cherab colony was that it was given out that the rabi would be $\frac{1}{2}$ this and the lharif. the rivers would have justified exactly the reverse, i e, the I harif should have been & the and the rabi & the The only remedy now is to give more water in the kharif and to take land out of rabi cultivation. As to the statement that there is no demand for water in kharif, I beg to say that I have had conversations with

several zamindars on this subject and as a body, they assert that they cannot get enough water in thanf
If you asked any zamindar; you would get the same reply
If water were given liberally for ploughing
rabi and nothing were said about what charge would be made for it, water would be saved in rabi and
better results would be obtained. Land which is ploughed up for the rabi during the thart's season gives better yields

4452 I have said that the sellers of cotton are losing Rs 3 to Rs 4 on account of stoppage of booking If the booking of goods were resumed, we would not sell to the local buyers They take advantage of the

zamındars because they can invest capital and get Rs 3 or Rs 4 per maund less for their cotton

4453 I do not think that any limitation of the prices charged for ginning is feasible—1t would mean that another factory ten miles off—would do the ginning—Kasur people, for example, get kapas from the United Provinces to gin—There are always enterprising men within a distance of ten miles who would gin at

lower prices
4454. The Agricultural Department is doing a good thing in enlightening us as to how the Bombay market goes by posting prices in the mandis. It should serve a useful purpose in getting the zamindars

good prices

Annexuke I

Statement showing number of waterings found to give the best results

| Cotton | | | 6 to 8 |
|-----------|----------|---|---------|
| Toria | | | 2 to 3 |
| Sugarcane | | | 8 to 10 |
| Wheat | | | 3 to 4 |
| Gram | <i>~</i> | 3 | 1 to 2 |
| Makks | | | 4 10 5 |

Ru Bahadur Ginga Ram, CIE, MVO

[Continued

and the following delta for each oron which is found to give the best results is as follows this is assuming that there is absolutely no rainfall—

| | inches |
|-----------|--------|
| Wheat | 18 |
| Torsa | 15 |
| Cotton | 30 |
| Chari | 24 |
| Mall: | 24 |
| Sugaronno | 40 |
| Senji | . 12 |
| Masur | . 12 |

The following disposition of crops is found in practice to be the best -

| Wheat | | | | | Aores 40 | |
|-----------|---|--|---|-------|-------------|---|
| Toria | - | | | | 15 | |
| Cotton | | | | | 20 | |
| Chars | | | • | | 6 | |
| Mallı | | | | | 6 | |
| Sugarcano | | | | | 1 | |
| Senzi | | | | | 6 | Scrip to come in place of chars and musur in place of makks |
| Masur | | | | | 6 | or mane, |
| | | | | TOTAL | 100 | |

Therefore product of delta and aereage works as follows -

| ments . | • | | 40 |
|-----------|-------|---|-------------------------------------|
| Wheat | | | $40 \times 1\frac{1}{2} \approx 60$ |
| Tor1a | | | 15×1}≈1875 |
| Cotton | | | $20 \times 2\frac{1}{2} = 50$ |
| Chars | | | $6 \times 2 \approx 12$ |
| Mallı | | | $6 \times 2 \approx 12$ |
| Sugarcano | | | $1 \times 1 = 125$ |
| Senzi | | | $6 \times 11 = 75$ |
| Masur | | ٠ | $6\times11=75$ |
| | Total | | 169 |

Now my experience is that, if a liberal supply of water was given for six months in the year, the delta required in the above disposition of crops can be obtained with a little margin, and I propose that half a cusee should be given for 180 days per 100 acres. The educations will therefore stand as follows—

$$\frac{1}{2} \times 60 \times 60 \times 21 \times 180$$

 $43560 \times 100 \times d$ d=178

Thus if the turns are so arranged that no one gets water more than 180 days in the year subject to such fluctuations as the state of rainfall warrants, one case can easily do 400 acres. The arguments in favour of this proposal are that double the quantity of water as now supplied given in half the time will ensure better command, less loss in absorption and evaporation, and hence better crops

ANNEXURE II Statement showing irrigation of Gangapur from 1915 to 1917

| | | | | | 4 |
|-------------------------------|---------------|-------------------------------|----|-------------------------------|---------------|
| 1 | 2 | 3 | | | |
| YEAR 1915 | | YLAR 1916 | | YEAR 1917 | |
| Month | Total days | Month Total days | | Month | Total days |
| January- | | January— | | January — | , |
| From 1 to 4 and from 22 to 31 | 14 | From 1 to 5 and from 15 to 25 | 16 | From 2 to 15 | 14 |
| February- | | Lebruary— | | February — | |
| From 16 to £8 | 13 | From 7 to 17 and 29 | 12 | From 5 to 15 and from 19 o 21 | 14 |

Mr Mohan Tati

[Continued

Statement showing irrigation of Gangapur from 1915 to 1917—contd

| 1 | | 2 | | ~ 3 | |
|---|---------------|---|---------------|---|---------------|
| YEAR 1915 | \ | YEAR 1916 | | YEAR 1917 | |
| Month | Total days | Month | Total days | Month | Total days |
| March— | | M roh— | | March- | |
| From 1 to 8 and from 30 to 31 | 10 | From 1 to 8 and from 21 to 31 | 19 | From 8 to 15 | 8 |
| April— | | Aprıl | | April— | |
| From 1 to 3 and from 26 to 30 | 8 | From 1 to 12 | 12 | From 2 and from 6 te 13 and from 24 to 30 | 16 |
| May— | - | Мау— - | | Мау | |
| From 1 to 10 and from 23 to 31 | 20 | From 3 to 8 and from 27 to 31 | 11 | From 28 to 31 | 4 |
| June- | | June- | | June- | |
| From 1 to 3 and from 6 to and 11 from 18 to 28 | 20 | From 1 to 10 and from 14 to 20 and 31 | 18 | From 1 to 2 and from 8 to 18 and from 24 to 27 | 17 |
| July | | July- | } | July | |
| From 1 to 14 and from 21 to 22 and from 27 to 31 | 21 | From 1 to 2 and from 7 to 8 | 4 | From 4 to 11 and from 19 to 23 | 18 |
| August- | [| August | } | August— | |
| From 1 to 2 and from 5 to 26 | 24 | From 30 to 31 | 2 | N ₁ l | |
| September— | | September- | - | September— | |
| From 5 to 7 and from 11 to 30 | 23 | From 3 to 4 and from 9 to 31 | 24 | From 3 to 8 | 6 |
| Oetober— | | October- | | October- | |
| From 1 to 7 and from 15 to 31 | 24 | From 1 to 10 and from 19 to 21 and from 27 to 31 | 18 | From 12 to 14 and from 19 to 29 | 14 |
| November— | | November- | } | Novomber- | |
| From 1 to 11 and from 17 to 25 | 20 | From 1 to 9 and from 23 to 30 | 17 | From 1 to 4 and from 6 to 10 | 9 |
| December- | | Dccember- | | December- | |
| From 6 to 16 and from 26 to 31 | 16 | From 1 to 5 and from 15 to 21 | 12 | From 1 to 6 and from 30 to 31 | 8 |
| TOTAL | 213 | | 165 | | 123 |
| 7 Months 3 days | | 5 Months 15 days | | 4 Months 3 days | |

Mr. MOHAN LALL, Ginner and Presser, Multan.

EXAMINED AT LYATTPUR, JANUARY 16TH, 1918

No written statement was submitted by the wriness

4455 (Mr Wadia) I am a ginner and pressor—I have several gins and presses in the Punjab—I have a ginnery and a press at Gojra, two ginneries and one press at Tobatek Singh, one ginnery at Makhdumpur near Khanewal, one ginnery at Rashida near Multan, one gin and two presses at Multan, one press at Dera Ghazi Khan and two ginneries at Hang—I have above 350 gins and eight presses in all—The gins are all single rollor gins—I have some saw gins at Multan but they are not working as it does not pay to work them. The lint turned out is not so good—the outturn is less and there is no staple at all—The first year—we used them for deshi—cotton, we sold the lint to exporters at Rs—1 6 premium over the ordinary roller ginned cotton but after that they refused to buy as they considered that there was no staple at all in saw ginned cotton. It was bad for the outturn as it cleaned too much—From the saw gins we only got 27½ per cent of lint whereas from the roller gins we got about 33 per cent—So that practically there was a loss of six to seven per cent—in wastage—I have not tried American cotton in them—In Multan district, the cotton is all dechi and there is no American.

Lala BATAK RAM

4456 The cotton grown in Multan is superior to that grown in the rest of the Punjab It comes next to Dera Ghazi Khan It is for this reason that it has got a better name in the Bombay market I sometimes send bales to Bombay I generally sell locally but sometimes send cotton to Bombay to Bruel and Co and the Bombay Cotton Co The cotton is sold under the name of "Sind Punjab" We send both pure and deshi We mix separate kinds of type samples We sell on type samples

4457 In all the places where we have factories, there is a pool Rs 986 In Lyallpur, we gin for our selves and not for outsiders The charge for pressing in Lyallpur is Rs 986 In Lyallpur, we gin for our selves and not for outsiders At Gojra, the charge for prossing is Rs 99, at Tobatek Singh Rs 910 and at Multan Rs 76 We press for others but we only gin for ourselves Nonoof the ginning factories work for outsiders stall We pry to the pool at Lyalpur Rs 3-86 so we actually keep Rs 6 At Multan we pay Rs 26 to the pool and retain Rs 5 The rate of Rs 5 or Rs 6 leaves some profit after expenses Non a days the actual cost is about Rs 4 8 on account of the dearness of stores Before the war, the pressing rate was Rs 3 8 Then Rs 1 8 to Rs 2 went to the pool We are not making a big profit We have to divide with the closed presses Here in Lyallpur, there are seven presses amongst which we are dividing We divide in equal shares. I have no factory here now as I have sold it to Messrs. Tata Messrs Tata are bound to join the pressing pool according to the terms of my agreement. That is the condition in which the factory was sold. If they do not join the pool, they will have to pay the penalty, or else go to court. I have no concern with the pool at Lyallpur now. The reason for the heavy charges is that we have to keep a margin for fluctuations. We are taking only Rs. 6 for pressing charges and we are spending Rs. 4-8. to keep a margin for fluctuations We are taking only Rs 6 for pressing charges and we are spending Rs 4-8 Rs 1 8 is kept for fluctuations. The price of hoops had gono high and is going higher every day. We have spent Rs 70,000 on presses and the interest on the capital outlay has to be taken into account and also an allowance for wear and tear. These are not covered by Rs 6. That covers only bare expenses and depronation but not interest on capital I think the pools are to the advantage of the cultivator In this colony we are paying higher prices to the cultivator than at other stations. We do not pay less to the cultivators on account of the pools. The buyers take pressing charges into consideration in buying cotton. The zamindar gets a fair price but for our own benoît we must have pools. There are more than 48 factories in the Multin district, but only ten or twelvo are working and the rest are all closed. So there are pools. The production is not according to the demand if all the factories are working. If Government, gave land to the new colonies, I would certainly remove my factories to other places. People would be quite ready to remove their factories. to the new canal colonies in that case Somo have moved already, one has moved from Schandrabad near Shujabad and another from Mailsi to Mainchannu One factory has moved from Hansi to Makhdumpur, another from Lahore to Chichawatni It would be easy to romovo factories if Govornment gavo facilities We pay annas 5 3 per maund to the pool at Multan and four annas to the pools at Lyallpur, Gojra and Tobatek Singh We have to pay that to the pool because the number of factories is much greater than the supply If all the factories were working as in a bumper season, then there would be no need to make a pool If the number of factories is equal to the demand and to the supply of Lapas there is no need for a pool Six years ago there was no pool in Lyallpur In 1904, there were forty thousand bales pressed in Lyallpur only, now there are only twenty to thirty thousand In 1905 06, not a single bale was pressed in Lyallpur owing to the bollworm spoiling the whole orop In the following year, those wore only 16,000 bales In that year, only two factories worked for only two months This year only three lakks of maunds of Lapas have arrived until now, including auctioned Lapas

4458 I do not work my factories at night I applied to the factory inspector for permission for nightwork at Gojra but have not yet received any reply We have electric light everywhere in our factories. We have a lot of stock All the factories at Gojra are working We have got 20,000 mainted of Lapas lying in our factory at Gojra At Gojra, there are not sufficient gins for the work this year but for an averago year thoy are sufficient I have not applied for night work at Multan as there is only work for one factory there I omploy women. They work twelve hours a day They get a rest for one lour at midday, so that the regular

work is for eleven hours It is altogether twelve hours I do not employ any children
4459 (Mr Hodglinson) We are selling American as "Sind Punjab American" in Bombay It is
in the Bombay market It is sold there as "Sind Punjab American" Wo sell it on typo samples It is quoted

is no regular market for it and no daily quotations. Wo generally get Broach quotations 4460 Kapas comes in very damped to my factories. We never get pure dry kapas. The zamindars do not store their kapas properly and so the colour becomes bad in many cases. They store it in very small houses and sometimes the middlemen mix water with it. There is no damping done in the factories in the

Punjab, that practice is in existence in Akola in the Central Provinces,
4461 We keep the American class "A" soparate but we do not get a proper price for pure American from buyers We did not buy at the auction sales this year though I bought at the sales two or three years ago When we buy pure American, we do not mix We do not mix ourselves but buyers want us to mix up to a certain percentage and we mix accordingly The merchants ask us to mix We could show you the contracts. The European buyers and the mills ask us to mix to a certain extent and we do so generally ask us to mix up to ten per cent

4462 The depreciation that we allow on gins and machinery is five per cent yearly and not more to the life of a gin, when the small parts become rusty, you have to replace them. A gin can work up for

twenty to twenty-five years but we have to replace some small parts yearly

Lala BALAK RAM, of Gangapur.

THIS WITNESS WAS NOT ORATTY EXAMINED

Written Statement

IV - MANUTACTURE

(a) Ginning and Pressing

4463 (36) Type and number of ginned presses —I use ordinary Platt single roller gins and Nasmyth Wilson Press I have four factories containing 184 gins in all with two Nasmyth Wilson and one Cummins Pross.

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4464 (37) Size of bale —Tho size of the bale turned out of the Nasmyth Wilson Press is $49' \times 17'' \times 18''$ and out of Cummins Press is $39 \times 19'' \times 19''$

4105 (38) Saw gins versus rollsr gins -Roller gins are best suited to our quality lapus not suited to citlier the *desh*i or American quality that we grow here, as it breaks the staple into pieces though turning out much bottor cotton, as far as whiteness of the colour is concerned. I think there is some prejudice too among the buyers of saw ginned cotton The advantages such as less consumption of coal, less labour required, etc , do not make up for the loss in weight, which we lose through saw openers as the buyers do not pay an extra premium for the improvement in the colour I had a few saw gins in one of my factories which I had to sell at half price after four years and Ralli Brothers have bought them

4466 (40) Factory labour -For the last three or four years, local labour is getting very scarcs, specially

for the ginning part, for press we can import labour from Agra, but that too with some difficulty

4467 (41) Condition of cotton—Most of the cotton which comes into the factory is brought by middle
men in the mandi(market) and not by the zamindars direct, hence one can never expect the middleman to
bring in pure stuff and it cleaves pays him to mix bad and good. I must say a lot of mixing is being done in the factories too, the chief reasons being that local buyers of cotton, i.e., firms, have to rely on their sub agonts in judging quality of cotton and thus they pay the same price whether it is pure or mixed, with the result that it pays the factory owner to mix up desh; and American to make up that standard for which they are quoted rates by these sub agents and when the middlemen see this being done in the factories, they also want to take advantage of the same. It is only when factory owners send their cotton to Bombay they find the difference. But owing to difficulty of booking and finances, they have to sell locally to these firms. If some standards be established in big local centres for qualities of cotton and rates given accordingly. I am sure, the quality of cetton will be much improved Then again the different customs in mandis should

be regulated in such a way as one mand; not to have redvantage over the other

4408 (42) Effect of replacement of short-staple cotton by long-staple—No substantial alteration in
machinery is required when long staple cotton is to be ginned. The only alteration required is to fit the

gins accordingly and this is the work of the fitters

4469 Necessity for a standard for long staple cotton -For long staple cotton, I would suggest that some standard of such cotton should be established in Bombay and Karachi markets as there are for deelis At present American cotton fetches twenty and Brosch, according to which rates be quoted to local aratyas or thirty rupees per Lhandi abovo Broach and sometimes bolow It all depends upon the quality and demand when the goods reach Bombay
4470 Discouragement of pools —I would also suggest that some restrictions ought to be imposed on

such factory owners who have put up the factories merely to join the pool, those who cannot work their factories for any reason should not be cllowed to join the pool whenever such system is prevalent. If this is done, it would discourage the present system of pools, both to the advantage of zamindars and the factory

owners who monn to work.

4471 Improvement in railway facilities — To enable the factory owners to give full rates to zamindars, facilities of railway booking should be given by the Government, if not much, at least cotton should be con sidered on the same basis as other export commodities. Owing to these realway difficulties, when they can not despatch their own cotton from their factories for months, they have to speculate in the Bombay and Karachi markets to hedge their gains and losses, which speculation, I understand, Government is trying to discourago as much as possiblo

V.-Sind.

Mi A J PANAS of Messrs Ralli Bros, Karachi

EXAMINED AT KARICHI, JINUARY 22ND, 1918

Wrillen statement

I -AGRICULTURAL EXPERIENCE

(a) " Deshy" short staple cotton

4472 (1) Experience —With the exception of a few months in the Cawnpore District, I have not actually worked in any part of India producing deshi short staple cotton. From working, however, about three years in Calcutta and about a year and a half in Karachi, as well as from personal inspection of the districts working under these headquarters, I had an opportunity of becoming acquainted with conditions prevailing in Eastern Bengal and Assam, Sind and the Punjab I have not come into touch with the cultivator anywhere
4473 (2) Varieties—Bengals, Assams, Comillas and Tipperus and Sind Punjab are the varieties
grown in the districts with which I am acquainted

4474 (4) Yields and profits -The yield naturally varies with the district and the variety of cotton grown Rough varieties yield more cotton lint per aero than soft ones. Under average soil and climatic conditions, the yield per aero fluctuates between 150 and 250 lbs or, say, five to nine Bengal maunds of kapas per acre

(2) Profits depend upon a great number of circumstances, the chief being the rate for cotton ruling in the world market, but given a fair average price and good marketing conditions, the profits on cotton to the culti I am not speaking of the very big profits carned by him during the last two years owing vator must be big

to the abnormal rise in prices, but have in view normal pre war conditions

4475 (5) Rotations and mannes.—I have heard of crops being raised in rotation, but cannot give any definite information on the subject. More often than not, cotton lands are left fallow for a season or two In the Assam and Tippera hills, the semi wild inhabitants plant together at the same time and place rice, I have never licard of any artificial manures being applied, and only very rarely are natural ones used

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4476 (6) Comparative returns -I consider that cotton generally is a most attractive crop to the culti vator, not only as regards the actual crain returns, but also in respect of all other orienmstances attaching to its cultivation. The evidence of this is the continually mere using size of the cotton crop. This, of course, may be due to more fresh land being put under cultivation, but it is more likely that this increase takes place at the expense of other conomic crops

(2) The profits to the cultivator on deshi mort steple cutton are inferior to those he makes on the exotic lo cotton. The phenomenal repudity in the growth of the Paujab American crop must be considered as staple cotton

conclusive evidence.

4477 (7) Conditions affecting increase in area —The area under short staple cotton in the United Provinces, the Pinijah and Sind is not subject to large the tuntions. The size of succeeding yearly erops would indicate a steady increase, with occason if set bucks due to (a) and is our able climatic conditions and (b) unlay our able results obtained during the previous season owing to low prices. The advent of the Punjab American variety or the introduction into any of these provinces of a better paying exotic long stepled variety will antur ally be relicated in the area put under short staple cotton. Concretly speaking the steady mere use of the area put under cotton c in only he limited by the unsuitability of the available lands by some other more paying economic crop being introduced by some cotton substitute being discovered and finally by the neces arty under which all cultivators are to grow a certain quantity of crops required for the upkerp of themselves and their eattle. Of these reasons only the first and the last are of any importance, because it is hardly possible for any cotton substitute being turned out as cheaply no cotton in links as and it is equally unlikely for an altogether new economic crop being introduced to take the place of cotton. The demand for this stapled cotton was very good in normal dive. I rom the highest to the lowest class, there were ready buyers for this cotton in India, Japan and on the Continent

4478 (8) Uses of seed and seed selection—The seed in largely used in India as a cattle food. It is also to a very small extent converted locally into oil. A fair proportion is in normal years experted to the United Kingdom and the Continent. The cultivator flow not, to my knowledge of his own necond select his secon on in second in principle. He is auxious to get seed yielding a log crop but he down not care whether this second is mixed, or otherwise, not the last for some my later than a preference is a second or otherwise. whether this seed is mixed, or otherwise not the best for sowing. In former years, preference was given to hand churkha seed for sowing purposes, but with the dying out of this form of ginning the cultivator buys

seed ginned by machinery

(b) " Deshi " long stayle cotton

4479 (10) Experience —I was in the Coconsida growing districts of Guntur. Kistin and Godavari for over a year and a half and in the Berris on and off for over a year. I have also been in the Central Provinces for about three menths. I have also worked for a short period in the Broach District and hive also visited the Hubh Dharwar, Raichur, Adom and Niudvil Districts but have no special i nowledge of these varieties or the conditions prevailing in the districts where they are grown. I have not come into touch with the cultivators

4480 (11) Varieties -Coconadas' (churkha and machine general), Comas (Klamgaon Akola, Amanti, Dhamangan Pulgaon, Leotmal, Nagpur, Hinganghat Wardhi) Broach, Kumptas Sin gmird Dharsar, Westerns and Northerns are the varieties grown in the tracts mentioned in the preceding paragraph
4481 (13) Yields and profits and comparative returns.—The following refers to the Beruss—

Of the staple cottons grown there, there with the shorter staple are evidently better paying to the cultivator than those with louger staple. I know from personal experience that the cultivators from the hilly districts of the Berars bordering on the Aizam's territors, where the highly appreciated bans is cultivated, came miles with their bullock carts to procure seed from districts where the cotton, although short in slaple, it as reputed to be a high yielder. This is, no doubt, the cluef cause of the deterioration noticeable in recent years in the staple of the Decean stapled varieties

(2) The fact that the cultivation of cotton in the Berlis has practically ousled that of linseed and wheat

would indicate that here, too, cotton is very paying to the cultivator
4482 (14) Relatious and manures —Natural manures only and that to a very limited extent are used 4483 (15) Conditions affecting Increase in area —The conditions which affect the area under cotton are the profits made by the cultivators during the immediately preceding season clumatic conditions at the time of sowing and the necessity to reserve a certain area put under cotton each year. Here, too, a steady merciso of this crop is noticeable

4484 (16) Suitability of existing varieties —There can be no doubt that in most of the districts where deshi long stapled varieties are grown, for better results could be obtained by improving the methods of culti vation I cannot say whether the indigenous varieties or the varieties now acclimatized, such as Sau ginned Dharwar and mungari could be exchanged for still better cottons but I am convinced that, given proper cultivation, the results obtained with the existing varieties could be immensely improved. Selection of seed, deep pleughing, manuring planting in rous, careful we doug will do wonders. I know of a Covernment farm m the Nandyal District where the plants grown out of selected indigenous seed were bushes, while in the sur rounding fields on the identical and under the same climatic conditions the plants were not a quarter the size

4485 (17) Prevention of mixing of different varieties - As long as mixing is the risult of the desire on the part of the agriculturist to grow a better paying cotion variety. I do not see how he can be prevented from doing so, unless it be that he is shown conclusively that the poor yielding deshi long staple variety, if properly cultivated, can give him just as easily an equally big return as the botter yielding short staple variety. If this is not done, he will continue getting the seed that is reputed to give the better return to the data with the seed that is reputed to give the better return to the detrument of the purity of the deshi long staple erop he raises

(2) Very little mixing takes places in the field once the crop is sown. The several pickings are as a rule marketed separately, and as regards keeping different qualities of one and the same picking of one field or

estate separately, I do not thul it can be done

(3) The worst offenders as regards mixing are the village petty deilers and the guiners. It is rather difficult to suggest an efficient remedy for the first of the two exils. The advances, which the cultivator receives while his erop is mixturing, he is actually in need of. They will consequently always have to be made to him, and in the research the standard of t and in this respect the hold of the village bania may be termed beneficent. It is, after all, the trade itself which by paying lower rates for mixed stuff has the best remedy in its hands, as the moment cultivator and village dealer find that it does not pay to mix, they will very soon stop this practice. It would also, I believe, be a good thing if official markets of easy access to the cultivator were provided so that he should come into actual touch with the buyer In the Berars and the Central Provinces, where the cultivator hunself brings Sind] Mr A J PANAS

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his Lapas to the market and sells it there with the assistance of his broker aratya, it is possible to select enit by eart both for class and staple, and separate hargains are struck at different prices for each quality is no bringing of lapas direct into the ginner's promises by the village petty dealer after it has undergone a

preliminary mixing to undergo a further one

(1) Once the production and marketing of each style in a fauly pure state is secured, gins owners would also have no longer the current excuse that they cannot keep the various styles separate as they arrive in the markets in a mixed state. The better prices obtained for pure gimings would quickly make all gimers strive to produce as pure an article as possible. There will always be a few gimers who will try to carn an additional profit by mixing lower with higher qualities, but I do not see very well how this can effectively be prevented. The idea of treating this mixing as a punishable offence must be abandoned as it is utterly impossible. Who is the expert who can definitely state that the cotton sample he has before him and which presents a certain unevenness of staple is the result of the fraudulent mixing of different varieties of the same style, say long stapled and short staple Comras, and not the outcome of the ginning of a poor and originally uneven lot of pure long staple lapas? I actories could be supervised and inspected but this scheme is sure to prove both costly and inefficient

(c) Exolic cotton

4486 (20) Experience - From worling in Karachi over a year and a half and from personal inspection, I had on opportunity of being acquainted with the conditions prevailing as regards Punjab American not come into touch with the cultivator

44°7 (21) Varieties—Panjab American is the exotic variety of which I have experience 4488 (23) Comparative returns—As the rapid expansion of the cultivation of Punjab American conclusively proves the profits its cultivation leaves to the cultivator must be considerably bigger than those left by other deshi crops, either cotton or any other kind of cononno crop

4189 (25) Conditions affecting increase in area — 18 long as Punjab American pays the cultivator

4490 (27) Prevention of mixing of different varieties—The premis paid by ginners for the purer qualities of Punjab American Lapis anglet to be sufficient and acment for the cultivator to try to produce is pure a quality as possible—As thus, however is not an easy matter to succeed in he must be assisted year in and year out in achieving this—The quantities of pure seed specially selected for sowing purposes ought to be sufficient for the whole area. Thus seed should be presed before it is sold to the cultivator by experts who to be sufficient for the whole area. This seed should be presed before it is sold to the cultivator by experts who should reject any doubtful lots. The seed for sowing should be actually issued to the cultivator just before the sowing season just to give him as little opportunity as possible of feeding it to his earlie. It should be sold by the agricultural authorities and by reliable guiners specially authorized to do so who should be known to have guined it out of selected lapas. It should be sold at a fixed rate, higher than the rate ruling for ordinary cotton seed. A field said to have been sown with pure seed should be inspected as soon as the plants are big enough easily to show the difference between the deshi and the exotio variety

(2) As regards the giving fectories, the intentional mixing that now takes place cannot be entirely prevented I am afraid. It can, however, he controlled by obliging any giviner who mixes the two y pricties to sell the cotton as such instead of as pure. I actories ought to keep separate stock registers for the two yarioties, so that if any one of them bought say, 500 bales. American and 100 bales deshi, in lapse, it could not export 600 bales of American but would have to show exports corresponding to its purchases. Naturally a body of

reliable inspectors would have to see that the above incasures are actually carried out

(3) It ought, however, not to be forgotten that all the above measures are more or less an interference with tride and are bound to cause friction, dissatisfaction and endless complications without perhaps the object in view being fully secured. Here again the liest would be to take the evil by the root and try to reduce the cultivation of deshi in areas where mostly American is cultivated so that there should be no temptation to mix

4191 General suggestions (a) Increase in Agricultural Colleges and Farms—There cannot be the least doubt as regards the immense good done by the Agricultural Colleges and Laims, the number of which can I reli important cotton producing area growing a distinct style eight to possess its own agricultural research institute, where experts should continually try to get the best results out of the soil available in the district. These re earch institutes ought not to have under their jurisdiction too big an available in the district area, as otherwise the work is bound to suffer. Seed farms ought to be numerous. I would like to see as many of them as possible for the following reasons. In the first place, the cultivator would be able to get there the pure seed he requires and, what is more important, the seed farm would be a permanent object lesson as regards the success which attaches to the improved methods of cultivation advocated by the central research The use of manure ought to be untroduced as soon as the methods of cultivation have been sufficiently improved. Manures are not used because the cultivator considers it a waste of good money and because he perhaps has no spare money to spend on them. But it must not be forgotten that the Indian cotton cultivator is getting richer and that, if it is shown to him what artificial manures can do, he will promptly use them. But care must be taken that the manures, the use of which is idvecated, do not go against the religious feelings of the people. It would, of course, be quite useless to try and make an orthodox Hundu cultivator use bonemed, whereas the Muhanimadans would have no objection whatsoever in using it It would, of course, be quite useless to try and make an orthodox

(2) (b) Establishment of public mart ets and discouragement of pools—Public markets of the type in existence in Berar I consider as the best. There all the daily arrivals have to go to the market. Lach buyer can select what suits him hest as regards prico and quantity, each seller knows what each buyer page sed weighten do the weighing Pools and combinations of ginning and pressing factories ought to be discouraged as it is the cultivator who has to pay out of what he gets for his kapas the extra and, in some cases, very considerable profits of the factory owners. This is very easy to prove, take two districts each producing the same style of cotton or near it. Each of these districts has its ginning centre, the one with a combination, the other without. The consumer of cotton naturally buys the centre of both districts. at the same price, in the one this price allows the ginner to pay a higher equivalent to the cultivator than in the other, where the charges for ginning and pressing are heavier. Owing to the distance between the two centres and other circumstances the cultivator cannot take his lapas to the cheaper ginning centre, and is, therefore, himself to pay the earth average are unable to work. I have known years ago, a wooden half presserved for a considerable length of time a royalty of Rs. 6,000 per annum out of the local pressing pool on the threat of its owners putting up a steam press if the royalty were not paid. The moment the accu

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mulated profit was big enough the owners asked for a bigger royalty, and its being refused to them they actually put up the steem press of that district had made a free gift of this press to its awards.

(3) (c) Licensing of factories — Factories and specially ginning factories ought to be licensed as otherwise very little can be achieved. They ought to be licensed, not so much to prevent mixing, which, as I have said above, might both prove ineffective and cause needless trouble, but, in order to make the production of the best cotton it is possible to produce out of the Lapsan analyle. Mixing may after all be necessary, and is long as the mixed quality is sold as such and the seed is not for sowing purposes, no harm can arise. But the cotton produced ought to be guined under the best conditions possible, otherwise it will fetch a lower price only and the cultivator through the fault of the guiner gots of entirally less. Instead, therefore, both existing ones and now ones to be built ought to be licensed. They ought to be built according to certain plans and ought to be run according to certain rules. Just as the agricultural research institutes train every year scores of your cultivators to do then work more officiently, just so ought there to be an institute for training ginning factory managers. The conditions prevailing in most of the Pumpah factories I have seen, and I have seen a good few of them, are such as that good cotton can with difficulty be produced. They are all too small and hopeless confinence prevails. How it is possible to 1 cep anything separate in these factories is a mastery it is, therefore, necessary that conditions prevailing in ginning factories should without delay be improved.

II -COMMPREIAL ASPECT

- 4492 (30 and 32) Local trade customs and buying agencles—The systems of selling differ widely all over India. The simplest is when the cultivator sells his crop to the ginner direct after he has gathered it. He may or may not have taken an advance from the village bania, but he sells his crop only when it is ready for the mail et and gets therefore, the full advintage of the prices then ruling. These prices may be lower sometimes than the prices that provided earlier, but on the other hand the cultivator does not run any risks. If he has sold a head and prices go up, he is very sorely tempted to deliver as little of his Lapas as possible to the original buyer and sell the believe at the ruling high rates. This way of proceeding may give him a temporary profit but derives a state of affairs which can hardly be termed satisfactor. If prices go down, the village bania is sure to try and squeeze out of his seller as much as possible in order to make an additional profit or reduce his loss.
- (2) I therefore consider as the most suitable for the rule of Tapas the one mentioned licre above. The cultivator, I am here referring to the ordinary run of Imharry of not the hig zamindar, should rell his Lapas when it is ready for the market direct to the ginner, whether the latter be the owner of a factory or only a merchant who gins at any factory and sells the cotton as such. The advances of which the cultivator is in need while his crop is maturing ought to be made without the price of his produce being fixed at the time.
- 4193 (31) Standardization of commercial names—The commercial names are standardized already as a reference to the rules of the Bombey Cotton Trade Association will show—There it is definitely laid down what can be tendered as "Broach" and what as "Bengals," etc

III -STATISTICAL

4194 (33 and 34) Improvement of cotton forecast and other statistical information —Generally speaking, there is much scope for improvement in this accuracy of the figures published by Government. How this can be effected I cannot say, but the figures of actual arrivals at interior markets carefully compiled day by day and cliced day arrivals at the ports and the consumption of nulls more often then not show big differences from the official figures. The matter will be simplified the moment all ginning factories are beened, and have to send in promptly accurate figures of their ginnings. The pressing returns, and present published, are both inaccurate and of academic interest only, even if they were accurate, as they are very much behind time. I think that the figures of the yield, as published by Government, would be more accurate if district authorities consulted also leading trade representatives before sending in their figures.

4495 (35) Publication of Liverpool and Bombay prices—Practically all the cotton markets are in touch with Bombay whence the dealers are quickly informed by who of the ruling rates. Besides the prices at which bargains are concluded and which become I nown very soon given sure indication of how the market stands. I do not, therefore, see what advantage the official posting of the daily Bombay rates could be As regards the Liverpool rates, I am decidedly of opinion that they would do no good whatsoever and are more likely to cause harm by encouraging speculations.

IV -- MANUTACTURE

(a) Ginning and pressing

4496 (36) Type and number of gms and presses—Messrs Ralli Brothers have at Mirpurkhas one Leeds Press, 62 single roller and 24 double roller Platt's gms. They have also there one small saw gm for experimental purposes. At Tande Adam, they have one kawcett Preston Cyclone Type Press. At Nawab shah they have 65 single roller Platt's gms, part of which have temperarily been dismantled to make place for an experimental system of saw gms.

4497 (37) Size of bale —The Mirpurkhas bale measures on an average $22\frac{1}{2}\times22\frac{3}{4}\times28$ inches. The Tando Adam bale $31\frac{3}{4}\times27\frac{1}{4}\times17$? inches

4498 (38) Saw gins versus roller gins—It is difficult to express an opinion in respect of the relative merits of saw and roller gins. Saw gins are universally used in America, roller gins being used only for the very longstapled Sca Island cotton. In Egypt, roller gins are used. In India, with the exception of the Dharwar District, roller gins are used, and there, too, the use of the latter type of gin is spreading as I miguen to understand. In the Punjab, two attempts to introduce saw gins failed. The one-system has been sold, the other is silent at Multan. As regards my personal experience of Mosers Ralli Brother's saw gins at Nawabshah, I can hardly speak about it, as only four or five bales have been litherto ginned.

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4499 (40) Factory labour -In Sind, where the ginning labour is obtained chiefly from Marwar, Raj putana, it may be said that, with the exception of famine years in those districts, there is always more or less difficulty in getting it It is also difficult to secure the proper type of cooles to work the presses efficiently

4500 (42) Effect of replacement of short staple cotton by long staple—It has up to date been possible to gin with Platt's roller gins all varieties of Indian and exotic cotton, so that, even if in Sind instead of the short stapled deshi cotton long stapled oxotic cotton were produced, it would not be necessary for our Platt's gins to be changed

V -GENERAL

450I (46) Attitude of buyers to improved cottons—Buyers in my experience always pay better prices for better qualities. This may not be apparent the very first time a new and better quality is put on the market. A buyer must naturally first make sure that what he intends to buy at a higher late is worth Once, however, he makes certain of this he naturally pays more for the better quality or paying more for the better variety

Mr A J Panas called and examined

4502 (Mr Wadia) I have had a good deal of experience of Calcutta and of this province During my stay in India I have chiefly confined myself to cotton I have had experience of Bengels, Assams, Comillas and Tippera cottons Tippera, Comilla and Assam cottons are not tenderable grainst any Bengal contract but they are of the same style though very short staple cotton and very rough. They are chiefly utilized in Germany and America for mixture with wool for blankets and so on. I was in the Benars for about a year and I have toured all through them. In the Punjab I have had experience both of the deshi and American cotton that is grown thero

4503 In Sind, the accepted figure for yield is about six to seven mainds of deshi lapas per acre. I have never seen any exotic cotton grown in Sind. There was a very little last year but it was more or less in the experimental stage The yield of deshi cotton in the Punjab is less than it is here but is close to it, about five to six maunds on everage The difference may be due to a different style of cotton. The cottons here are much rougher and the rougher varieties are much better yielders than the silkier ones 3½ maunds a very poor yield. I have not heard of twenty maunds of phuttis (Lapas) on ordinary cultivators' fields though such yields may be got on Government farms. The maximum yield of which the trade speaks is ten maunds per acre

4504 Sindi deshi cotton is a short staple cotton We never measure it in inches In India, cotton is never sold according to the length of staple as expressed in inches. The trade merely says that such and such

a cotton is a short staple cotton or a good staple cotton

4505 I do not say that cotton is a more profitable crop than wheat in this country but I do say that from the way its cultivation is increasing, it must necessarily be more attractive to the cultivator. In former years in Berar there were large crops of linseed and wheat and there was a balance for export after meeting local consumption but now there are no linseed and wheat to be bought. Our agencies now do no business except in cotton and cotton seed. That does not apply to Sind. In Sind, there is a balance of wheat for export 4506. I was not here in pro-war days and I do not know whether cotton seed was then exported from

Karachi but there is a big domand for seed in this part of India for the feeding of cattle as there are and tracts in Rajputana and Malwa which adjoin this province and which do not produce any eattle food

amount of seed goes to Rajputana and Malwa in consequence

4507 I would advocate the establishment of seed farms on the lines of those which I have seen in the For the cultivator to improve his cotton, it must be proved to him up to the hilt that the improved cotton will pay him and the only way to do this is by demonstration, i.e., by showing him the results which can be obtained on the seed farms by selection and by better ways of cultivation. Otherwise he will not do anything

I have had some experience of Berar and I consider the Berar market system the best way of merket ing cotton. It is impossible to sell the whole crop of a district by auction for it would be too big a job but where all the arrivals of cotton are bound to come into the market where there are heensed weighmen and where every buyer has an opportunity of scoing things for himself, the cultivator gets into touch with the people who do the buying and hears all about prices Sind may perhaps not be ready for this system because there are very few giving centres. It is no use opening markets where there are no giving factories but the there are very few ginning centres

Punjab is certainly ready for it

4500 Cotton in Karachi is sold baled either forward or ready at so much per mound of lint custom prevailing here is that one can buy oither full selection or one's own selection. The latter is the system which is most in voguo. There is no system of arbitration in Karachi as in Bombay. The system is that everyone buys his own selection. The dealers sell amongst themselves Relli's selection or Volkart' selection. everyone buys his own selection and so on When a man tenders and his tender is not passed, he has a right to re tender again and again until the lot is passed. The system has worked very smoothly here. It is worked on the "give and take" This year, for example, we are accepting lots which would never have been passed in other years We take the difficulties in which the traders are into consideration and we allow accordingly sold on a certain type at a good price and the market has dropped and the buyer continues to reject his selection from time to time, then he has the remedy in his own hands. That buyer would not find any man to sell to him again on his own selection. He could not play tricks like that. No respectable firm would do it. If any one tried to do it, he would find the whole market against him. If he wishes to seem cotton later, the dealers will only sell him cotton, the passing of which is subject to selection of another European firm, so it is far from being the case that the sellers are absolutely in the hands of the buyers. We have no rules and regulations as the Bomby Cotton Trade Association has. There is no aibitration cleuse in regard to the quality of the goods tondered, but the contract is subject to arbitration under the Arbitration Act Now everything goes to Bombay and is there sold under the rules of the Bombay Cotton Trado Association I have not had enough experience of the Bombay market to be able to say how the rules work but the system here works very smoothly Nobedy can take advantage of anyono else as there is the dread of being punished for it by the market. There is no big market here as there is in Bombay The market 11 a very much smaller market and deals practically with one style only and for that the much simpler system works better. There are four or five European firms with cotton experts who do the arbitration work. We have to refer to the rules of the Bombay Cotton Trade Association continually as we sell to Bombay. In Bombay, there is no such thing as "fine ginned Sind" the official designation is "fine ginned Sind Punjab". You can tender any cotton grown from Mirpurkhas to Amritar. Whether

there should be a separate classification for Sind and for the Punjabis a question for Bombay to decide As long as buyers find tenders against their contracts suitable, I do not see why matters should not be left as they are Hero in Karachi we either buy "Sind" or "Punjab", there is no "Sind Punjab"

4510 As regards the position of the cultivator, the first evil is the system of advances given him whilst the crop is maturing. The presence of the village bana who buys small lots is necessary, he must exist because it is he who starts the inancing of the cetter crop. I cannot say what the village bana does as regards buying the standing crop. The factory owners who buy from the cultivator hunself or from the village trader buy so many maineds of lapas at so many rupces per mained. They do not pay a lump sum of the whatever the field produces.

4511 The trade does proposed for a mixture. Wherever we have get giming factories, we do not buy inferior cotton at the same rate as the superior. In Sind, almost all the factories gin on their own recount. They are gimners and increments. Unintentional mixing in the ginneries is undoubtedly due to the eramped condition of the factories. They cannot possibly keep things separate and provent the cooles from taking from the nearest heap what should have been taken from the heap further away. The factories should have more room to keep things separate. In some of the factories this is impossible as there is no space for extension but there are many factories which could be extended as they could buy land and spreed out

1512 A mixture cannot be called fraudulent so long as the mixture is sold as a mixture. If a man mixes a certain percentage of cheaper stuff with dearer stuff and sells it as his stuff, I hardly think you can call that fraudulent. There is quite a lot of that going on, especially in the Punjab. If a dealer mixes American and deshi and does not say that his stuff is pure but that you can look at it and leaves it to you to find out what the mixture is, there is no finded. The moment he guarantees that his cotton is pure and sells a mixture as such then fraud comes in

4513 Practically no cotton from the Punjab has come down to Karachi for sale this year but there is pure American to be had in considerable quantities this year in the Punjab. There has been a tremendous improvement in the cotton crop of the Punjab this year over that of last year. Last year I dealt with it personally, this year I am following it from the samples that we are getting. We are getting a large number of even lots which last year we did not get.

4514 As long as the gamer has an opportunity to make an extra profit by getting a chesper quality and by mixing it with a higher quality he will do so. The radical way to do away with this is to purify the district. The moment he has not get two qualities to mix he will stop mixing. It will not be worth his while to bring inferior qualities from elsewhere for mixing. To begin with 1 unit be known. I honestly believe that nobody can tell the exact percentage of mixture of deshi with Punj is American once it is gained. No cotton expert can do so unless he puts the cotton through the spinning maximum. With layers you can definitely say whether it contains a mixture of one or two per cent. as soon as it is gained, all one can do is to come to the conclusion that it contains more or less of deshi mixture, but one cannot say whether the percentage is three, five or eight percent. I certainly cannot and I do think that no cotton expert could do so meightly pulling the staple as the unovenness may be due to the presence of undeveloped and immuture American layers which is inistaken for deshi. As to whether if American cotton were put on the Bombay market as a separate class under the rules of the Bombay. Cotton Trade Association and there were type samples in the Cotton Trade rooms, the arbitrators would be able to judge the percentage of deshi, it is immutorial to the purchaser whether the short staple is due to immuture bells or to a mixture of deshi. Lean in the case of Comras, nobody bothers to see whether it is due to fraudulent mixing or to immuture bells that the particular lot is only classified as 'far,'' 'good' and so on. It can only be said that the cotton answers to types X, Y, or Z. Khandesh cetton night be mixed with the lower classes of Khamgaon Akola but it could not be mixed with fine Khamgaon, as it is exceedingly leafy.

4515 As regards the prevention of mixing control over ginning factories would me in continual inspection and a lingo staff of inspectors. There would be endless trouble. It is difficult enough to enforce the Lactory Act. Why should not a mix mix cotton if the mixture suits hum? The moment there is no friud, how c m you provent him from mixing? Millowners are able to mix themselves. Why should not ginning factories mix and make a profit, provided there is no fraud. As long as a man sells to you according to this contract, there is no fraud. If the hecising of factories is a mily as regards proper working, i.e., if it simply me instituted are properly organized, that they have not get rotten gins which turn out runsed cotton and that they are properly organized, that they have not get rotten gins which turn out runsed cotton and that the gins are stopped until they are put in order, I approve of it. The best remedy for mixing is in the hands of the bayer, of that there can be no doubt. In 1904 when I went to Ginitur I used to buy machine ginned and charla (hand ginned) cotton. This charla cotton was considerably adulterated with seed and hapas. It was sold at Rs 5 or Rs. 8 below the rate for machine ginned cotton. Reports cano from home that the cotton was no good. After that if the charla cotton was bought, it was cleaned on the sellers' account. This was done for two or three years and now the charla cotton in Guntin is just is clean is inachine ginned.

4516 I would suggest that ginning factories should be built according to a standard plan in order to get out of the lapas will able the best class of cotton. I have suggested in my written evidence that technical schools for training men for ginning factories just as agricultural students are trained should be established Such schools should train the men who will see to the further handling of this agricultural product. I am not prepared to give an opinion as to how such schools should be organized as I am not familiar with Government methods of working but the necessity for them is indicated.

4517 I am afruid the complaint that false weights are used is correct. As an instance of this, I may mention that in one place down south we fired many times to buy kapas and to gin it ourselves. Although we offered a higher rate for the kapas, we always failed. We could always buy ginned cotton cheaper than kapas. I do not think that it is necessary to make it a condition when granting a heense for a ginning factory that standard weights should be used as the existing laws provide for the use of correct weights. Any body using wrong weights e in beright now. Official markets would do may with the call to every great extent though heensed weightnen are not above suspicion. It might be a good thing to put in as a condition of a heense that no ginnories should keep any other weights but the standard weights

4518 I have had no personal experience of the poels in the Punjab but I know how they act and react on general trade conditions. I am of opinion that they do cause less to the cultivator, there can be no doubt about that. The poel naturally charges considerably more than the actual working charges in order to make extra profits and such profits come out of the pocket of the cultivator. When there are two districts producing

Mr A J PANAS

[Continuca

the same style of cotton in one of which a pool exists and the pressing or ginning rate in that district is higher than it is in the other, it follows that the profit made by the pool must come out of the pockets of the cultivator Besides ginning and pressing pools encourage rotten machinery as it is not necessary to have efficient ginning and pressing machinery to take part in the pool. In Khangaon and Amraoti, one of the conditions for admission of a press to the pool is that it should press 200 bales to show that it is in working order. Here in Sind, the ginners are ginners and merchants. No cotton is pressed in Karachi, only wool and there are no ginning factories so no impressed cotton comes in a certain districts there are more gins and presses than there is work for. In Multin, for example, there are three times as many ginning factories as there is work for. They all share in the pool. The charges are very high because all the factories cannot work and make a profit out of the ordinary rates. It is very difficult in present war conditions to say anything about the cost of running a factory. The price of hoops is now almost troble what it used to be. Fixing maximum rates for ginning and pressing would mean an interference with private individuals in the exercise of their ordinary trade action. In my opinion, the less interference there is with trade the better.

4519 (Mr Hodglinson) Given enough water, Sind would do very well for American cotton, but the water should be given when it is wanted and not when the Canal Department wants to give it. This year we got water in Sind at the last moment when cotton could possibly be sown and the result was that it was very late and owing to cold has suffered a lot. The cultivation of American cotton is a question of irrigation entirely. The little of it I have seen in Sind was quite all right.

4520 Wo have started four s w gins at Nawabshah this year and this is our first experience of them I have seen them working and I have seen them stop. We have not had time since we put them up to attend to them properly and to see what they are capable of producing. It is not a question of our being obliged to introduce these guis in order to gin Punjab American cotton. That can be done by the roller gins but it is a question of doing it in a better way and of getting rid of some of the needless fluff, dust and dirt which is left in the cotton and is carried home where the cotton has to be cleaned. American cotton is ginned by any gins in America, and we wanted to see whether we could do it here. I do not think that saw gins damage the staple. I have seen some of the saw ginned cotton and I cannot find any damage. As far as pulling the staple goes, I can see no difference. We have not had any tests made as we have not had the opportunity so far. We have instruction to ship small samples home.

4521 (Mr Henderson) We have kapas waiting in the various places in the Montgomery Colony and as soon as we get it down, we shall be able to start these tests

4522 The last year's crop of Sind American was 100 to 150 bales. I found the stape less silky than it is in the Punjab but just as long. It pulled fairly evenly, but was slightly rough and had not the glossiness of Punjab American. A mixture of deshi would make it rough but it would also make it very uneven. It was not uneven so there was no deshi in it

d523 There is no resemblance between the cotton of Tando Adam and that of Amritsar but there is a certain resemblance between cotton from Kasur, Chunian and Kot Radha Rishen and that from Tando Adam in Sind. Those places produce a style of cotton which sometimes lool like Sind cotton. There is a considerable difference between Punjab cotton and Sind cotton. I do not know what is the object of classifying them together. It may suit the trade in Bombay as the trade pays the price of the poorest quality of the cotton. The prices here are not regulated only by the prices rating for the Sind Punjab." in Bombay. In Bombay "Sind Punjab" only gets the price of the poorest quality. Here you can only buy Sind and Punjab separately. In the ordinary course of affairs a lot of Sind cotton goes to Europe and consequently there is hardly any of it to be seen in the Bombay nulls whereas practically all the Punjab cotton goes to Bombay. Hence when they buy their "Sind Punjab" they get only Punjab. In ordinary years in Bombay, one does not get Sind cotton for tenders against "Sind Punjab" cotton. Sind cotton will only be tendered when the producer of a higher quality has to send his higher quality to Bombay owing to there being no local market for it. But to day Bombay quotations re act on the price in Sind. This is not to the dis advantage of the Sind cultivator, because now the prices of the cotton of the "Sind Punjab" tract in Bombay are dictated by the prices of the Sind cotton here on the result is that the prices have gone up. As regards the alteration of the classification, we are not concerned here with what the Bombay people do. The producing districts, Punjab and Sind, do not suffer from it.

4521 I do not think that as a general rule ginning conditions in Sind are botter than they are in the Punjab. They are about the same. The result of the ginning factory conditions in Sind are not so noticeable as they have to deal with an intrinsically better erop. Sind cotton has better colour, less strain, less leaf, and a much higher ginning percent go than Punjab cotton.

4525 (Mr Roberts) There are two classifications for "Bengals" and "Sind Punjab" because they are different cottons. Punjab cotton cannot be tendered igainst "Bengals" "Bongals" generally fetch Rs. 2 or Rs. 3 more in Bombay, than "Sind Punjab". This year that has changed because the prices of "Sind Punjab" are dictated by the Sind cotton. It would be a mistake to put "Bengals" under the same classification as "Punjab" and it would serve no practical purpose, "Bengals" are free from leaf and from stun, even high class. Punjab" contains le if "Sind" is rough whereas the other two are silky. The quality of the deshi cotton in the canal colonies in the Punjab is different from the quality at Kasir. Kasir cotton is still a fairly good class. If a line is drawn from Sirgodha to Okara, the part to the south and south west of that line grows an infinitely superior class of cotton to that to the cast and south east. The deshi cotton of Dera Ghazi Khan, Multan and Tobatek Singh is much superior to the deshi cotton of other places. The characteristic of Sind cotton is its great roughness. Nobody tenders Tobatek Singh cotton against "Sind Punjab". It is sold on types. The trader who speculates knows "Sind Punjab" as a class but the spunci knows exactly whith he is buying as he buys on types. If the transport of cotton from one place to mother except Bombay were prohibited, then classification according to railway stations might be helpful but as long as people are railing cotton from Amraoti to Phulgaon and Dhamangaon to be sold in Bombay under the name of the latter station no object would be served by such a classification. Punjab American cotton this year is better than the last year or rather there is more good cotton available than there was last year.

4526 (Mr Wadia) Who would prevent the transport of cotton by rail from one station to another? It might be done but the cotton would be transported in earts, though not for more than a hundred miles You can legislate but who is to look after the carrying out of the laws? Why should you prevent a ginning factory from working in a bad year by stopping the transport of kapas to it? Legislation would mean a tremendous number of inspectors and preventive officers to see that the laws were carried out.

Mr J G BROOKIR

4527 (President) I think the submission of ginning and pressing retirms ought to be made compulsory. They are issued now too late and are not of much vidue. The total figures for Sind are often only a little above our figures for Mirpurkhas alone. The returns should be more on the lines of the United States reports and should be more punctually published

Mr. J G BROOK+R, Chief Engineer to Messrs. Ralli Bros., Mirpurkhas.

Examinid at Karachi o thi January 22nd, 1918

No uniten statement was submitted by this uniness

4528 (Mr | l adia) I am the Chief Ungineer for the whole of the area controlled by the Karachi branch esses Ralli Brothers—My he adquarters are at Mirparl has—I have, at present, in my charge two ginning of Messrs Ralli Brothers My he idquarters are at Mirparl has factories at Nawabshah, two at Mirpurl has, a press at Mirpurl has and a press at Tando Adam and also a large quantity of machinery unconnected with cotton. I am concerned with all the purchasing of machinery, with the buildings and with insurance—in fact vith every thing that concerns machinery and the working of the factories. I have had six veris' experience of ginning factories and presses. I have seen other factories of the factories. I have had six verss' experience of ginning factories and presses. I have seen other factories besides ours. The class of fitters generally employed in the ginning factories in Sind inverve poor. I am referring to the fitters both of single and double roller gins. Ours are I think the only double roller gins in Sind. We have our own fitters. One or two were originally imported by us from Southern India from our factories. there and they have trained others. So, on account of double roller fitters being absolutely unobtainable except in this way, we pay more attention to their training and the result is that they are more efficient than the single roller fitters. They are a better class entirely. We require a more intelligent man to understand the double roller than the single roller, and the ordinary single roller gin fitter would not do at all without training. The double roller gin fitter has to be practically a nucleiume as well is a gin fitter. Single roller gin fitting is almost an hereditary profession here. The fitter has sons and relatives who seem instinctively to know a hitle about it. They begin as oil men and then go on as fitter. They are useless for any other engineering and but do that fourly well. Now of them are Single. They are useless for any other engineering. work but do that fairly well. None of them are Sindhis. I have no Sindhi labour under me of any description. The fitters are very often men from Kutch, come of them are Mulammailans from Agra and we have several from Southern India from our factories there who have settled down here. I would cert tilly advocate the training of better fitter. I would give them a little theoretical I nowledge as well as practical training but the light man must be pieked. It is no good talling ordinary fitters. You must get men associated with ginning factories. I would certainly advocate training under proper supervision.

4529 The double roller gin 14 a much more economical machine than the smale roller gin for the same The notion mechanically is entirely different though in principle the same class of cotton gin, the gird of the gin through which the seed drops is stationary, in the double roller gin it is moving. It moves with a beating action and owing to this beating action the lapse is partially cleaned, the dust falling through the grid into the reed. That is the first way in which you get a cleaner cotton in a double roller gin as compared with a single roller. The second way in which you get a cleaner cotton is also due to the grid In the single roller grid, there is an arrangement which breads up all the liusks which come into the gin with the layer. Whilst almost all the broken husks go into the secil, a certain amount must go through the roller with the lint. The double roller gin does not bread up the husl at all and it has to be removed by hand. This is the second reason the double roller gin gives cleaner cotton than the single roller gin. If there is a lot of husl, the gin has to be stopped for fifteen or twenty minutes and the husls removed by hand. Practically speaking the single roller gives must be subject with the road but next in removed by hand Prieticilly speaking the single roller guis mix the rubbish chiefly with the seed but partly with the lint, whereas the double roller takes away all the rubbish from the lapas. There are other minor reasons why the double roller gin gives better cotton than the single roller gin. It revolves slower and therefore the cotton is less subject to bring term and wern and to hiving pieces pulled out of it and so one gets better cotton that way. As to doing any hirm to the staple, I may say that the Sindhi cotton has no staple to consider and that I have had very little experience of ginning stapled cotton. My experience is that Amer can cotton can be gamed equally well in the engle reller or the double roller gin provided certain altern tions are made in the grid of the gin. I have never heard of the staple being damaged in any way. I think the malers (Messrs Platt Livothers) claim that speems and integer are given by the double roller gins, but a single roller gin can be adjusted for American cotton as well as for desh. Ten verse 150 the price of a single roller gin was Rs 250 and that of a double roller gin Rs 550. I give you the figures shown in Platt's catalogue. Spending very roughly, the output of the double roller gin is double that of the single roller gin, but it does not require double the horse power. It is therefore the more economical in achine and less costly in power. If you gin the same lapas in either gin, you will get the same weight of cotton but the seed from the double roller gin will be lighter than from the single roller because the pods that are broken in the single roller go through and mix with the seed while the pods are removed by hand from the double roller The slight extra weight you get in the seed is therefore not seed but idulteration

4530 I erected and have worked the saw gins at Nawabshah and at Mupurl has I am not preparate any definite statements regarding them because we have not concluded our experiments yet I am not prepared to rally as the sim gins clean the cotton better than the foller gins, one expects to get a smaller ginning percentage It is practically the same as taking roller guined cotton and passing it through openers. I caimed by whether saw glas cut the staple as I am no judge of cotton or staple. I finey that have gins in the hands of peoplewho do not understand them could be pretty dangerous machines as regards damage to staple and so on A man with a certain amount of nucchanical knowledge is required for them

4531 As to lapas platforms behind gins, I am not prepared to say that an eight feet lapas platform is enough. That should be the minimum. The wider it is the better. Our No. 1 factory in Nawabshah. is a most convenient factory in every way and might be taken as a model as regard size. During the runs the factories ought to be able to store sufficient lapas to be able to continue ginning for twenty four hours, whether it rains or not, without the lapas being in danger of gotting damped. Lither they have to do that or the factory has to be stopped on account of run. If no consideration is paid to the quality of the cotton, you can continue ginning damp I apas but leaf adheres to it owing to its being ginned in a wet state and the rollers will be spoilt by doing so and other damage will be caused. By making a big platform, the factory is not only made convenient for normal conditions but expense is saved in the long run because the factory can

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Mr J G BROOKER

[Continued

be worked during rainy days

The size of our Nawabshah factory is 33 feet between inside walls, and the platforms for piling the laps are cleven feet wide. The gins are single roller gins. That is of course, a
liberal size. For a double roller ginning factory, I should say that a minimum of thirty feet between the
inside walls is necessary and I should myself male it not less than 36 ft. Then you can divide your laps
and lint platform according to your personal inclinations. In the Nawabshah factory, the actual space for
lint and laps is thirty feet whereas the width of the factory, between walls is 33 ft, that is to say there is

lift of gin on each side not reckoned as platform space

4532 I have had experience of three kinds of presses, the Cummins' press, the Watsons' press and the Leeds' press. I have also seen the Nasmyth Wilson press. The Nasmyth Wilson press is the ordinary one used by native merchants. The shape of the Leeds' bale is practically a cube. The Cummins' press, according to my recollection, turns out a long bale in depth and about square in section. The Watsons' press thris out a bale much like the Nasmyth Wilson bale, a very long bale lished with cloven hoops. I am inclined to thind that in the Watsons' type of press the bale can be pressed to better measurement than in the Leeds' or the "Cummins". Given equal pressing power in each case, the shape of the bale makes it slightly easier to press and it is certainly easier to sample on account of its length as the middle hoop and the end hoop can be removed without any trouble. I can give you the actual increasement of the Leeds' pressed bale. The bale turned out by the Leeds' press is 22½ by 22½ inches in section. The depth varies, of course, according to the shipping measurement required. The best shipping measurement that one rections to get out of an ordinary Leeds press is twenty tons per hundred bales. With American cotton, one usually only presses up to a measurement of 25 tons. We used sometimes to press deshi cotton to animoteen tons which involves tremendous pressure. I never risk that now a days because one cannot replace the machinery.

4533 (Mr Hodglinson) I ercoted a set of Platts' automatic feeders at Mirpurl has and experimented with them assisted by a man that Platts sent out. These automatic feeders can be applied to ordinary singlo roller gins. We tried them for three weels. The automatic arrangement was as perfect as one could expect provided the class of lapas was suitable for the feeder. Our lapas was rough and dirty and so it damaged the feeder. Owing to the shortage of skilled labour locally, I came to the conclusion that it would be impossible to keep these feeders in as perfect a condition as they should be kept, but given favourable conditions of lapas and labour, I should say that they are in excellent idea. One coole can feed from six to eight gins. The only other automatic feeding arrangements I have had anything to do are the pneumatic clearators on the saw gins now at Nawabshah. These ruse the lapas to the top distributors by suction and then distribute it to the gins by the belt distributor. I am perfectly certain that, in a model factory, provided one got skilled labour to leep the machinery in good order with the rates for coole labour as high as they are at present, it would be a good investment to instal these clovators. It could very easily be done. It would do away with a lot of earrying, and would stop making on the lapas platforms entside the factory. It would also prevent mixing at the entrance doors of the factory. Ginned cotton and lapas would nover be mixed because the lapas would be delivered direct to the lapas platforms and by quito a separate route to the cotton. The seed would be taken away automatically from the factory. The automatic feeder made by Platt is only applicable to single follor gins. Platt's machines are the only ones in this part of the world. I have heard that in Tuticorn, there is a gin with seven rollers which is very extraordinary. It is difficult to apply automatic feeders to double roller gins on account of the beating action of the gin. We have automatic feeders both for double and si

4534 (Mr Henderson) There is a big difference between the size of deshi cotton seed and American cotton seed judging by the grids we use. We use a grid five sixteenths inch wide for ordinary deshi cotton and that, I should say, allows roughly one sixteenth of an inch on each side of the seed to drop through. That is to say, the seed is three sixteenths of an inch in diameter. The ordinary American seed is another one sixteenth bigger, say, one fourth inch. If we were going to gin American cotton in any considerable quantity, say 1,000 bales, we should undoubtedly have to fit larger grids to our gins to get a better output per hour. We do coeasionally keep two sets of grids five sixteenths and one fourth inch in size. The latter we use for deshi cotton when we got exceptionally bid lapas with small seeds, then we have to fit up a number of gins with small grids in order to say the lapas from falling through the grid, and getting mixed with the seed some trials have been made with ginning deshi cotton in the standard American saw gins. The standard saw gin is fitted with a grid suitable for large seed. My experience was that the class of deshi cotton that we required did not warrant alteration in the gins, as the few odd seeds going through the grids and mixing with the lint did not, make much difference, the class of cotton we required being very low. There is an appliance under the saw gin to remove the seed which accidently falls through the grid. It must be remembered that in roller gins the seeds should fall through the grid and the lapas and lint should not, while in the saw gins without altering the grid. The seeds which do escape the grid are removed from the lint by the arrange ment already described and the amount of seed in the lint of deshi cotton is not enough to worry about. It is not more than in the case of the ordinary roller gin where occasionally seed is carried through into lint at the end of the roller. It might be worth while experimenting with a smaller grid for the saw gin to get

4535 If saw gins were generally adopted eventually, I do not think that there would be any difficulty in training labour to deal with them. The fitting of the saw gins and their supervision is infinitely less labor ous than that of the roller gins but if a person who has no experience whatever with a saw gin tries to work it, he will make a mess of it. Mechanically it is very much simpler.

it, ho will make a mess of it. Mechanically it is very much simpler

4536 (Mr. Roberts.) The standard grid for deshi cotton is five sixteenths inch wide. We get so little

American that no alteration in the size of grids has over been made in the roller gins we use for it. We simply
gin the few bales of American that we have in the roller gins uneconomically as regards output per hour. Really

speaking, the grid should be increased in order to increase the output per hour

4537 I have already suggested that a board should be placed in front of the single roller gins to save the feeding cooler throwing lapas over into the ginned cotton. It must be easily removeable because there is no frequently occasion to look into the front of the gins. There is no trouble at all about arranging it. It is merely a matter of a couple of clips. It should be made of wood. As a matter of fret we have not had any trouble so far with lapas falling over the front of the gins into the lint so that boards are not necessary in our case. That is due to the training of the staff which pays particular attention to this matter. Super vision is an important point,

Mr J G BROOKER

[Continues

4538 I do not think that there is any necessity for different elevations for the entry and exit of lapas and cotton if the factory is designed in such a way that the two cannot cross. It is just as easy to go up two or three steps and to throw lapas into the gin as to walk in front of the gin and lean over and throw it into the kapas platform. It occasionally happens that one side of the factory finishes its kapas whilst the other s do has still a lot left and then the men who carry lapas have to remove it from one side of the factory to the other and walk down the stars and go round in preference to throwing it ever the gins

ANNEXURE I

Letter from J G Brooker, Esg Chief Engineer, Messrs Ralli Bros, Mirpurkhas, Sind, to the Secretary, Indian Colton Committee, dated 25th January 1918

I have the honeur to forward you sketches showing-

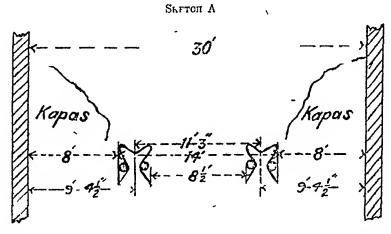
(a) The minimum sizes recommended for ginning factory lapas platforms, both for single and double

(b) The sizes for ginning factory lapas platforms which are large enough for ordinary working under normal conditions

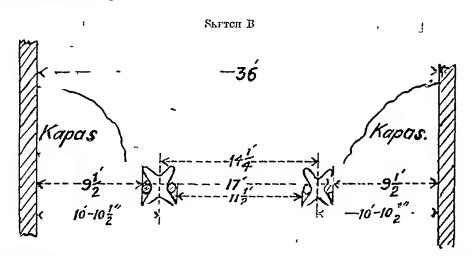
I have shown on the sketches the number of hours for which the factories can werl after the lapas plat

forms are filled up

I should add that in districts, where lapas is opened before being ginned it is very advisable to provide ample covered in accommodation behind the openers. This should accommodate lapas sufficient for five to ten hours' working of the factory. The total accommodation therefore both behind the gins and behind the approximate large that there is no the state of the stat the openers is sufficient to keep the factory at work for at least a day without re filling so that there is no excuse for filling up with damp lapas in the early morning if the platforms have been filled the evening before In rainy weather also it is very desirable to have the platforms kept filled up so that there is always a day s ginning of dry lapas in hand



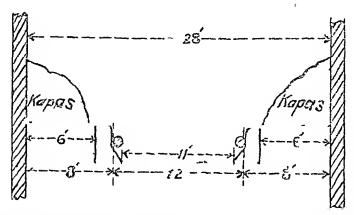
Showing minimum dimensions recommended for double roller gin factory. Giving 8 feet platforms for lapas, and 81 feet for cotton. If gins are spaced at intervals of 7 feet and 81 inches and lapas is piled on the platforms in the manner shown above, the platforms are sufficiently wide to keep the factory working for eight hours at one filling



This sketch shows the dimensions for a conveniently sized double roller gin factory, big enough for normal working conditions The kapas platforms are big enough to keep the gins going for nine to ten hours after one filling, if the gins are spaced, and Lapas piled as in sketch A

Mr J R ALFLLTRANGER

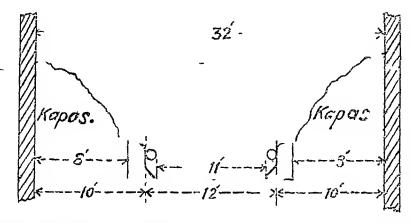
SECTOR C



Showing minimum dimensions recommended for single roller gin factory giving six feet platforms for Lapas and eleven feet for cotton, the distunces from wall to gin shaft centre being eight feet and between the shaft centres of the two lines of gins twelve feet

If the gins are spaced 5 feet 9 inches apart, and the kapas piled as shown, the factory can work for eight hours at one filling

Skeich D



This sketch shows the dimensions recommended for a conveniently sized factory for single roller gins. It is big enough for normal working under normal conditions. The lapas platforms if piled as shown and if the gins are speed as in Sketch C will keep the factory working for about 101 hours

Mr J R Affeltranger, of Messrs Volkart Bros, Karachi

EXAMINED AT KARACHI, JANUARA 22ND, 1918

Written statement

I -AGRICULTURAL EXPERIENCE

(a) "Deshi" shor staple cotton

4539 (1) Experience —I had about nine years' experience of cotton business in the Punjab, mostly on the Ambila side I have also been for two cotton seasons in the Combatore district of the Madras Presi dency, and, since autumn 1912, I have been stationed in Karachi I have had several occasions to get into touch with cotton cultivators

4540 (2) Varieties—In the Punjub and Sind, the varieties known as "Sind Punjub" and "Bengals" are grown, while in the Coimbutore district, riots used to grow the varieties called "Uppam," "Nadam" and "Bourbon" These latter, I understand, have now been practically supplanted by Cambodia 4541 (3) Size of holdings—Information regarding the practically supplanted by Cambodia at the production under cotton can best be obtained from the Irind Record offices. As far as my information goes, about one fifth of the holdings are usually accounted for cotton callivation in the Punjub. In the Punjub canal calculate for the holdings are usually reserved for cotton cultivation in the Punjab In the Punjab canal colonies, five

to ten squares of about 25 acres may be considered an average holding

4542 (4) Yields and profits—The average yields and profits per acre vary considerably. In the Punjab, the yield per acre varies from four to eight maunds, while, in Sind, the average yield of cotton per acre is reported to be about nine maunds of lapas under normal conditions. The profit depends, of course, mainly on the prices of cotton and on the outturn. Owing to high prices realized, the profits on cotton cultivation per acre have been considerably higher ones than of other crops grown in the Punjab and Sind during the past five to seven years

[Continued]

Sind]

4543 (5) Rotations and manures -In the Punjab, the principal crop rotations are wheat, toria, cotton maize, sugar cane, juar and bajra, in Sind the fields are, as a rule, alternately sown with cotton, bajra and juar. In the Punjab, very little manure is used for cotton onlivation. Fields near villages are sometimes manured with cowdung and village refuse. Some well to do zamindars also use saltpetre. In Sind, manuring is resorted to very freely by ryots and the manure applied is a mixture of cowding askes refuse etc

Excepting in the North West Prontier Province (Pechawar), there is 4544 (6) Comparative returns

no long staple deshi cotten grown in oither the Punjab or Sind

(2) As pointed out in paragraph 4542, cotton has been paying cultivators very handsomely in secent verts

and better than any other crop, owing to high prices realized

(3) In the Punjab, the cultivation of the so called American varieties has been more profitable to culti The grower of American cotten must have carned Rs 5 to Rs 10 more vators than of ordinary deshi cotton per acre during the past few seasons while this year the difference is even more stiking. Kapas of the American varieties in the Punjab now fetches from Rs 19 to Rs 21 per maind as against deshi kapas rates varying from Besides, the outturn per acre of American cotton as higher than of deshi this year, the Rs 148 to Rs 17 deshi crop having suffered considerably more by the exceptionally heavy September and October rains than the American crop In Sind, the cultivation of exotic cotton has on the whole not been successful owing to unsatisfactory irrigation conditions and the outturn has been so poor that it pays the zamindar better to grow deshi cotton

4545 (7) Conditions affecting increase in area Cultivators judge their so sings necording to prices ruling and irrigation and weather conditions existing at the time of sowings. If good prices have prevailed during the season and especially at the time of sowings cotton is always given the preference in cultivation to other crops. Areas under cultivation fluctuate from 25 to sometimes 100 per cent. Any increases of the area of short staple cotton would mean smaller areas for other crops, but, in the Punjah as well as in Sind,

the cultivable area can still be very largely mereased by the opening out of new irrigation colonies

In the Punjab, seed is used principally for feeding extile local consumption. In Sind, most of the seed used to be 4546 (8) Uses of seed and seed selection A small quantity is in unufactured into oil for local consumption exported to Europo before the war and only a small quantity was consumed locally. At present practically the whole yield of seed is disposed of for consumption in Rajputana and the Punjab and in Cutch. I or sowing purposes ordinary seed preferably small sized seed, produced by ginning factories is freely used. Some of the ginning factories select and gin separately the best qualities of lapas available and sell the seed at a promium Hand ginned seeds are preferred to all others, but there is very little of it to be had now a to oultivators

4547 (9) General economic conditions - Scientific plongling and the use of fertilizing manures should go a long way towards merersing the yield of cotton. It is I nown for instance, that the Punjabi settlers along the Jamrao canal in Sind obtain by good and careful ploughing a far better yield of wheat and cotton than their Government ought to encourage the manufacture of fertilizing manures as much as possible and induce zamindars to buy modern agricultural implements. Much can be done act in the way of improving the quality of deshi cotton Very little care is bestowed upon the picking by zamindars In many eases, zamindars allow the lapas to drop on the ground with the leaves, thus eausing a deterioration of the colour and mixing of leaves with the Lapas

(b) " Desh: " long staple cotton

4548 General -As already answered under Section (a), there is no such cotton growing in the Punjah or Sind. The two fairly good indigenous cotten qualities called Hausi and Multan are not of long staple, the length of the fibre being not even five eightlis of an inch. It has by now been sufficiently established that exetic cotten especially of the American varieties can be very successfully grown, especially in the Punjab colonies, and, as ovotic cotton fotches a far better price than deshi long staple cotton, preference must naturally be given to the cultivation of evotic cotton, the more sees Lenershire is badly in need of such cotton

(c) Exotic cotton

4549 (20) Experience —As already stated in paragraph 4539, I have spent two seasons in the Coim batore district where Cambodia cotton is grown to a large extent. But my activity was chiefly confined to the purchases of deshi varieties as the cultivation of Cambodia was at that time in its initial stage never been stationed in any of the Punjab contres where American cotton is now produced, but I have always remained in close touch with our Lyallpur Agency and I have followed the development of the American cotton cultivation in the Philipab and Sindvery closely ever since I have been stationed in Karachi I also visit the Philipab cotton contres once every year at the beginning of the cotton season

4550 (21) Varieties—In the Punjab, the so called 4F American cotton is chiefly grown, this being the produce of seed originally imported from America and acclimatized in Dharwar In Sind, experiments were mede with Triumph cotton and other varieties, but the experiments not having been successful, the

cultivation of oxotic cotton has practically been abandoned this year

4551 (23) Comparative returns 4F cotton is about as good a yielder as deshi, but the outturn of

lint is slightly less than that of deshi Lapas

4552 (25) Conditions affecting increase in area —It has been established that the successful growth of exotic cotton such as of the 4F type and other similar varieties is subject to certain conditions which seem to restrict its cultivation to irrigated areas. A further large development of the cultivation of the American cotten can, therefore, be attained only by the extension of irrigation. The elimatic conditions of the Punjab and Smd appear to be very conduction for the growing of the American cotton As a matter of fact, the American varieties have stood the adverse climate of the last summer far better than the deshi cotton has also been proved that the American cotton sown in the Punjab suffers much less from insect pests than deshi The only dise dvantago in planting American cotton is that the crop to kes a much longer time to mature than deshi It has to be sown in March or April and picking usually commences from the 15th of November only This seems to interfere with other crops, especially food stuffs, but to what extent, I am unable to say Frost sometimes comes carly in December and the American cotton is, therefore, hable to suffer much more from frost than deshi cotton Thoginning seasons generally last from October to the ond of March but owing to the lateness of the American crop, it may sometimes have to be prolonged till end of May If good manuro is applied to the soil, there ought not to be any great necessity to observe rotations of crop. The problem of labour is difficult to solve as the supply is getting shorter every year. The sale of agricultural machines and wooden implements should, therefore be oncouraged by Government as much as possible

Mr J R AFFELTRANGER

[Continued]

4553 (26) Suitability of existing varieties -I think the right varieties of exotic cotton are being pushed as far as the Punjab is concerned. The growing of the exotic cotton should be pushed vigorously in Sind as soon as irrigation conditions have improved. It is generally admitted that both the soil and the climatic conditions in Sind are better suited for the cultivation of long staple cotton than in the Punjeb

elimatic conditions in Sind are better suited for the cultivation of long staple cotten than in the Funjer 4554 (27) Prevention of mixing of different varieties—The practice of mixing exotic cetten with deshi in the fields is now slowly being dropped by zamindars and tyots—The farmer has by now fully realized that mixing does not pay and if, in spite of this, he occasionally grows mixed qualities, he does so simply because he has not enough pure cotton seed of the American variety—This year more 4F American seed has been sold by the Agricultural Department than in previous sersons and consequently more pure cotton is being obtained in the Chonab, Thelum and Montgomery colonies than in any other year. The whole remedy appears to me to he in the feet that farmers must have easy access to pure American cotton seed and, for this purpose. Government to the Agricultural Department should establish seed farms or seed depots in all the purpose, Government, e, the Agricultural Department should establish seed farms or seed depots in all the various cotton centres and, if possible, also in the tehsils of each district. No fanoy prices should be asked for these seeds as very often the price demanded for the article frightens the cultivator away and he is forced to

buy indifferent seed elsewhere at a cheeper r te

(2) The question of preventing mixing in the ginning factories is a more difficult problem to solve, chiefly owing to the unscrupulousness of some of the factory owners Generally speaking, I am of opinion that the proper agency for dealing with complaints as regards unlying and adulteration of produce is the trade itself, but in the present ease I think some interference on the part of Government is advisable for the following It is a well known fact that the number of ginning factories in the Pinjab is far in excess of actual ents. This causes very strong competition amongst the factory owners and consequently all attention of ginners is diverted to outturn rether then to quality and exicful ginning. Very few of the now existing factories in the Punjab have enough godown and compound accommodation to keep the different qualities of kapas strictly separate, and consequently good and bad qualities and kapas of different growths such as American and deshi are freely mixed. Of late three years has also been a tendency in the Punjab to bring into the cotton trado and ongage men as factory managers who have had no experience whatsoever in the cotton business and in the cotton selection. These men are usually well educated but, being without experience in the business and selection of cotton, they are more often than not detrimental to the cotton trade. I think somo improvement could he brought r bout if the existing fretories were put under license, and licenses should be stopped where it is proved that the gimers have deliberately mixed or otherwise deterior ted the cotten In new colonies such as the Lower Berl Doah, and colonies still to be opened, Government ought to restrict the number of ginning factories to the absolute necessity, and care should be taken to issue licenses only to well known firms with many years' experience in the cotton trade The Punjab Government are now stipulating for certain conditions is regards constituction of ginning rooms when selling factory sites in the Lower Bari Dorb Colony I would go one step further and insist on specious and well ventileted gedowns, large drying Dorb Colony platforms, eto, being erected in order to I cop the different qualities strictly separate and dry

(3) There orn be no doubt that factory owners have of late years received considerable encouragement from Indian mills to mix American and deshi cotton—I do not mean to say that these mills have had then oyes set purposely on inixed quelities, elthough they have probably not dono badly with their purchases of inixed cotton considering the fat inargins with which Indian mills are working since the outbreak of the war, but tho fault lies probably more with the mills' purchashing agents who, with quite insufficient training in the selection of evotic cotton, are sometimes quite incapable of judging whether the cotton is mixed or not is no exeggeration to say that, of the purchasing agents now acting on behalf of Indian mills in the Punjab, there is searcely e man who knows how to pull the fibre of the cotton properly. Indian mills are now by far the clief buyers of American cotton in the Punjab and they will continue to be so even after the way. Therefore, the problem of raising the standard of quality, mixing, etc., is one to be solved in the first instance. by Indian mills. It will pay them in the long run to exercise a very strict control over the selection and avoid or heavily pensize mixed qualities Without the co operation of Indian mills and particularly so of their purchasing agents with exporters in the latter's endeavours to improve the quality, Punjab American

cotton is not lil cly to reach a high onough standard to attract many buyers from Lancashire

(4) I believe the introduction of one or two standards of Punjab American, which should be established and doposited in Liverpool, Bombay and Karachi, would result into some improvement of the buying system and ensure a raising of the standard of quality, although I do not feel very sangume on this score simply because several of the large Indian mills have their own buying arrangements in the Punjab 4555 (28) Importation of seed —As far as I know, experiments carried out with fresh imported seed

from America did not provo to be a success

4556 (29) General Economic Conditions—To my knowledge, manure is only very scantily used for cotton growing in the Punjab and, as fertilizers are not likely to be available in large quantities in the near inture, the greatest eare should be taken in the selection of seed. In order to provent deterioration of quality, the seed for American cotton cultivation should only be supplied by the Agricultural Department who should prosecute the selection of seed systematically I would also by stress again on the necessity of deep ploughing and careful wooding Zamindars should also be able to rely strictly upon the Irrigation Department to obtain water when required for cotton During my tour in the Lower Bari Dobb colony last November, I have heard some complaints on this secro

II —COMMERCIAL ASPECT

4557 (30) Local trade customs —Cultivators bring their cotton into recognized commercial centres 4557 (30) Local trade customs — Cultivators bring their cotton into recognized commercial centres for sale where it is sold to the highest bidder. Ginning factory proprietors frequently buy kapas in the interior from zamindars or kapas dealers and have to pay certain advances to the cultivators as excuest money. In several instances higher in has ensued over these bargains owing to the cultivators failing to deliver the kapas against their forward contracts. The risky nature of such forward business with cultivators has prevented large commercial firms from buying from cultivators directly. If agricultural banks could safeguard the interests of buyers, experters could also participate in the forward business with zamindars and the cultivator would then get more for his cotton, as experters would be able to outbid the middlemen. At present, experters buy mostly ginned cotton from factory owners, but the tendency of experters inclined. At present, exporters buy mostly ginned cotton from fretory owners, but the tendency of exporters inclines more and more towards the *kapas* purchases from *mandi* arrivals thus eliminating the factory owners as sellers. The reason for this is that factory owners can rerely be rehed upon to tender satisfactory quality in rising markets, whilst it often happens that contracts are repudirted altogether by factory owners. involving the buyers in endless higation. I believe the protracted proceedings of commercial cases in the

Punjub and other Inden Law Courts here much to do with the indifference which some of the Indian merchants display towards their contract obligations and, as a reinedy, I would suggest a much freer use of the Arbitration Act in all cases of a commercial nature. This, however, necessitates the creation of local Chambers of Commerce, which should be constituted not only of exporters, factory and millowners but should also include the local Government Authorities, as for instance, Deputy Commissioners or Cellecters and the local officers in charge of the Agricultural Department Disputes about quality, I think, it would be better to have referred to arbitration in Bombay or Karachi, as it will often not be possible to find Awards given by Bombay or Karr chi arbitrators should be made onforceable importial cotton experts locally So for Indian merchants in the Punjab have preferred to avoid arbitration also in the Punjab Law Courts in Bombay or Kerachi, probably because they think that they will not get justice in these arbitrations is true that the present systems of classification in Bombay and Karachi are not very reliable and if arbitration and classification could be conducted in Bombay and Liverpool on the Bremen system, it would, to my thinking, not only strengthen the confidence of the Indian merchants in these arbitrations, but also help considerably to improve the conditions in the Indian cotton trade

4558 (31) Standardization of commercial names—Sind and the bulk of the Punjab deshi descriptions are sold in Bembay under the commercial name of "Sind Punjab" A few stations on the Ambala side are allowed to pass as "Bengals" which in normal seasons are quoted Rs 5 to Rs 10 higher than "Sind Punjab" in the Bombay market I do not think this differentiation is justified at all, since the intrinsic value of most of the Punjeb styles is as high as the produce of the United Provinces Both Punjabs and cotton from the United Provinces should be classed under one and the same name, say "Punjab Bengale,"

while Sind waich is of a much shorter fibre might be given the name "Sind"

III --STATISTICAL

4559 (33) Improvement of cotton forecast —The cotton forecasts are very meagre and distinctly restricted in the information they publish. Their chief fault is that they are generally too low with regard to the yield and the estimates compiled by our own agents in the Punjab and Sind have invariably proved to be more relieble than the Government forecasts Besides, the Government forecasts are generally pullished much too late to be of much use to the trade In America, the Agricultural Bureau reports on the condition of the crop at the end of every month I do not think it necessary to have monthly reports published, but the four estimates which it is now customary to give out should be made available to the trade much quicker than hitherto

4560 (34) Improvement of other statistical information—I certainly advocate pressing and ginning returns being published by the Government every fortnight. There will be no difficulty in getting the information. tion from all the factories and presses if a strict control is kopt. I may also point out that opinion is regards the quantity of cotton consumed in the villages ie, by the farmers themselves and other village between 400,000 to 1,000,000 beles. It would be of the greatest interest to the trade to have reliable figures for this "home consumption "in villages, as without them it is impossible to estimate the yield of the

crop accurately

(2) No reliable data is wallable in regard to despatches of cotton from upcountry stations at present I would recommond the formation of a special department or burern which would have to deal with statistical

matter and which would have to romain in close and continual touch with trade
4561 (35) Publication of Liverpool and Rombay prices —I do not think the publication of Liverpool and Bombay cotton prices of upcountry markets would be of much use, because the average zamindar will scarcely be able to calculate from these quotations how much he should get for his Lapas

IV -MANUTACIURE

(a) Ginning and pressing

4562 (36) Type and number of give and presses—In Multan, we have a giming factory containing 28 single relief Platt Bros gins and one Hodgart half press with a D. Stewart finisher—In Mir Hussan, about 21 miles from Tando Adam, we possess a factory, the building of which collapsed last October owing to floods caused by canal breaches—The 43 gins, Platt Bros—roller gins, and engine are now being removed to some other place

4563 (37) Size of bale —Our Multan press produces the ordinary oblong standard bales of about

10 20 e ft

4564 (38) Saw gius versus roller gins —Saw-gins are no doubt great le bour saving machines and blo of turning out much more ginned cotton than roller gins. They are, however, rumation to deshi capable of turning out much more ginned cotton than roller gins short staple cotton, as the staple is cut to pieces by saw gins. I connot express an opinion as to whether saw gins could be more successfully employed in the case of Punjab American cotton, as I have not yet seen any such cotton ginned by saw gins My firm is trying to gin, as an experiment, some Punjab American cotton in the Dharwar district where saw gins are used, but owing to the closing of railway bookings for cotton we have not so far been able to despatch the Lapas to Dharwar

4565 (40) Factory labour -We have much difficulty is obtaining factory labour now 3 days

4566 (41) Condition of cotton — Damp lapas and cotton as well as cotton mixed with kapas and crushed seed are often to be found in the lots weight and press. As regards remedies, I refer to my suggestions in paragraphs 4554 and 4556 As far as I know, deliberate damping of lapas or ginned cotton is not being practised very much now a days, but lapas often arrives in a damp condition because it has been picked by farmer in the early mornings when dew is falling. Instead of having it thoroughly dried before stacking, factory owners grenerally stere such Lapas is badly ventilated godowns, as a consequence of which the Lapas becomes heated and discoloured

(b) Spinning and weaving

4567 (45) Effect on cetton market of replacement of short staple cotton by long staple —If it is a question of replicing whole crops, such as for instance the Bengal and Punjab crops by long staple cotton, this would undoubtedly cause considerable dislocation in the cotten trade and in the textile industry,

Mi J R AFFELTRANGER

[Continued

V -GENERAL

4568 (46) Attitude of buyers to improved cottons —Long stapled cotton always commands a better price than short stapled varieties and premiums are always paid for improved growths

Mr J R AFFELTRANGER called and examined

4569 (Mr Henderson) I have some experience of deshi Sind cotten. It is brought chiefly at Tando Adam, Shadanpur and Mirpurkhas. Sind deshi cotten is rougher than Punjab deshi. It is used for quite different purposes, chiefly for mixing with wool. It is not so sill y as the Punjab and is shorter staple. It is a different cotten altogether from the Punjab cotten, and it is not difficult to distinguish the two. One can distinguish them by the feel and by pulling the fibre. The ordinary trade name for both is "Sind Punjab" cotten and they are both included in the same classification. I can not understand why two such different cottens have been classified under the same name, and I think that there should be a difference between Punjab and Sind cotten. The Punjab cotten should be included in "Bengals" whilst Sind should have a separate class of its own. The intrinsic value of Punjab is as good as "Bengals". The cotten from the Calcutta side is Comillas, corresponds to Sind, but is even harsher. As far as I know, it ranks in about the same class as Sind cotten. If the classification were changed as suggested above, it would be an improvement as regards Punjab cotten because it would be sold as "Bengals" whilst Sind cotten would continue to be sold as "Sind" if sold on sample, Sind cotten certainly gets a ligher price than Punjab. As a rule, it gets a ligher price in Europe but not always in Bombay. The present system seems very cumbrous. It can only be explained by the convenience of the trade in Bombay. In my opinion, Punjab cotten, i.e., deshi cotten and "Bengals" should come under one name. I have not sufficient experience of other parts of India to express an opinion sto the classification. I have some experience of the Combatore tract. Combatore cotten simply comes under the name "Cambodia" No classes have been fixed for that cotten. I merely want the classification of "Sind Punjab" altered and am not prepared to express any opinion in legard to other parts of India.

of "Sind Punjab" altered and am not prepared to express any opinion in legard to other parts of India 4570 I saw samples of Sind American cotton two years ago. The samples were very good as regards fibre, they were also of a fairly good class. The cotton was grown in the neighbourhood of Mirpurkhas. At first it got a premium over deshi, but afterwards there was no demand for it owing to the collapse of the cotton market. In my opinion, it was superior to Punjab American, better in fibre and of better class. I do not think that it ever had a fair chance so far as the premium went. If there were a proper organisation and if it got the price and premium that American cotton is getting in the Punjab, I think there would be ample scope for expression. Sind is an ideal place for American especially round Minpurkhas, and towards Nawabshah. The deshi cotton there immediately south of Nawabshah, i.e., in Shadadpur is very superior

and it is better than the cotton further south

4571 (Mr Roberts) I am in favour of local chambers of commerce upcountry stipulations made in the contract that any disputes except perhaps in regard to quality should be settled by the arbitration of the local chamber of commerce I should prefer to have disputes in regard to quality settled in Bombay or Karachi, because there would not be local experts available. The local chambers would charge the usual fees for each arbitration. I would include the Deputy Commissioner, some agricultural officers and all the merchants A meeting once a fortnight, would be quite sufficient, in case of emergency, there might be an extra meeting By avoiding litigation business upcountry would be made easier and the settlement of disputes would be facilitated. I im against the Bombay and Liverpool methods of arbitration I am of opinion that these should be puld official arbitrators who would not know who were the parties to the transaction. There is a good deal of suspicion at present amongst Indians and others in regard to Bombay arbitration, especially in the Punjab but not so much on the Bombay side Punjab sellers have often refused to sell on Bombay arbitration. If there were official types or official standards in Bombry for Punjab American, I think it would be an improvement, but most of the buyers would have to buy on the basis of that standard, otherwise it would not be of much use Buyers who are not established in the Punjab would prefer to buy on the basis of standard. They would have something to go upon. At present there is no fixed standard for American cotton. There is nothing fixed about the length of the staple and about the class. There ought to be at least one standard and the value of the standard must be fixed in comparison with other qualities. For the present, I would have two classes, one of superior class and staple and one of ordinary class and staple. The standards would have to be prepared of superior class and staple and one of ordinary class and staple by the Cotton Trado Association in Bombay Somo arrangeme Somo arrangements would be made by the Cotton Trade Association with the Cotton Exchange

4572 (President) The outturn in the present cotton forecasts is never shown accurately. The estimates that we make ourselves are more reliable. I think that the forecasts should be prepared by some other Department. The Agricultural Department would be the best. We do not require a greater number of forecasts but we want them more accurate and more punctual. The pressing and ginning returns should be made compulsory. There should be a cheek on cotton in transit. No data in regard to that are at present available. I would accommend a special Statistical Department, which might bring out a monthly statistical report, showing the figures of cotton in transit from one station to another and from stations to ports. My experience is that when I have applied to the railway authorities for such figures, they have refused to give

them

4573 I certainly think that it would be a great improvement from the trade point of view to have a standing committee sitting, say, in Bombay and composed of members of the cotton trade, both exporters and shippers, mill owners and members of the Agricultural Department, meeting at regular intervals to discuss all such matters, and to make information available for Europe and other countries. It would help to link up the trade all over the world. There ought to be more cooperation between the Agricultural Department and the trade.

4574 (Mr Wadia) My opinion is that all ginning and pressing factories should be licensed to distinguish which mix and which do not. All bales should be marked with the name of the factory (both ginning and pressing) and also with the name of the station from which they are despatched. Good and bad qualities of cotton are very often purposely mixed together in the factories but it is sometimes the fault of the labourers. It may be said that mixing is mostly done purposely. I have had a number of complaints about Punjab American and deshi cotton being mixed. If a ginning factory were habitually mixing and complaints were brought against it, the license of such a factory ought to be temporarily suspended. There is not so much fraudulent damping going on now as there used to be. Cotton arrives in a damped condition from the

Mr F G TRAVERS

using starty picking in the morning has a lot to do with that. I do not think that the banias damp now as much as they used to do. The ginning fretories used to damp their cottons in the godowns by sprinkling water on the walls and on the floor of godowns but. I think there is an improvement in that respect. Some of the ginneries are badly built and that tends to mixing of lapas and lint. In the first place, a lot of lapas gets mixed with ginned cotton in the ginning room. Secondly, there is not sufficient accommodation in the godowns to enable the good and bad classes to be kept separately. If heceases are issued, bad ginners should be required to remodel their factories on better laies with wider lapas platforms and improvements in ginning.

4575 In my opinion, ginning and pressing factory owners are encouraged to mix cotton as they get too high prices comparatively for the mixed cotton from the mill owners. In the beginning, buyers had not omough experience to find out that American cotton contained a lot of deshi mixture. If a bale were shown to me containing a mixture, I could not say whether it was mixed, if the mixture were only five per cent, but I could tell the difference between a five per cent and a twenty per cent mixture, though I could not between five and ten per cent. The mills are very often cheated owing to this difficulty of detection. Their purchasing agents have not enough experience. They have not got the same I nowledge as exporters have because they are not specially trained men. They could be trained in Bombay where there are plenty of opportunities to learn the work of selection. We have always got standards of cotton here, not for American but for deshi. We have got home and Bombay standards not local standards. There is no local standard. Each export house buys on its own selection and it is generally known to every seller what quality he has to tender. If I buy a thousand bales of Sind cotton in the Karachi market, I buy according to my own standard. There is no local standard here. There is no judging by standard samples, as in Bombay. There is an arbitration of European merchants. The Bombay rules do not apply to the Karachi market. There are no fixed rules as regards purchases. In the case of sales by exporters, the buyer can have tenders surveyed by any other export firm but the seller is not bound to accept the survey roport and he has the option to tender another lot if, in his opinion, the survey report is not justified. There are no fixed rules as regards purchases. I am certainly of opinion that there should be at least one standard. I do not think that the present system is satisfactory and it should be improved. If we had our own Cotton Trade Association we could have our own rules on somewhat similar lines of

4576 Pools are formed because there are more factories than there is nork for That is why they keep the pressing and ginning charges so high, and the natural result is that the cultivator gets a lower price for his cotton. The pool question is a very difficult one. I do not think that it can easily be stopped. Without pools in some of the hig places, it would be impossible for the factories to exist. The only thing is that there should be a limit to the pressing and ginning rates. I do not think a ginning rate of Rs. 9 and a pressing rate of Rs. 11.8 reasonable. Rates might be regulated according to a reumstances. If labour is more expensive then higher rates should be allowed. The licensing body should look to the local conditions of labour, coal and other charges, cost of hoops, etc., and should regulate prices to give a fair margin for profit and depreciation. Where there are more factories than are necessary, the removal of some to another place where there are complete them would be the best thing but would be very difficult to work. If Government approved the idea, it would be a good thing if facilities for land and other concessions were given

4577 (Mr Hodghinson) I have not had much experience of Cambodia. I was in Coimbatoro the first season that Cambodia was grown there. The staple of Cambodia is longer than that of Punjab American It is fully one inch in the length whereas Punjab American on an average is only seven eighths meh. I am talking of 4F cotton as that is the best known Punjab American. We have sent several consignments of Punjab American to Laneashire and we had to sell them at a heavy loss, as nobody wanted to buy it, owing to the staple being very irregular, and to the mixture of deshi cotton. The chief complaint was on account of the irregularity of the staple. It contained a lot of deshi of very short staple and so could not be used for the purpose for which it was wanted. We also had a bad experience with Italy. That was two or three vears ago. Since then we have not exported any more Punjab American. If it is to be exported to Lanea shire it must be more regular in staple and the deshi must be kept as pure as possible.

Mr F G TRAVEKS, representative of Messrs Gill and Company, Karachi.

Examined at Karachi, January 23rd, 1918

No written statement was submitted by the witness

4578 (Mr Wadia) I represent Messrs Gill and Company Before that I represented Messrs Gaddum and Company I knew nothing about cotton before I came to this country. The first place I went to Broach I then went to Berar and Tinner cily. I have been in Karrein for the last seven years, and so I know all the cottons dealt in here, Punjab deshi, Punjab American and Sind cotton. Sind cotton as a rulo is rough and some people will not take it. The Punjab cotton is mostly somewhat silky and soft. Rough cotton was sometimes stipulated for in the contracts. I am referring to European buyers. In the past before the war we used to ship cotton to Bombay. It is all called Sind Punjab in Bombay and either Sind or Punjab cotton can be tendered against a Sind Punjab contract. Most of the leading cottons were sold on samples taken from the bules or on type. We sent a type down and we sold on that type

4579 I have had something to do with Punjab American. Wo used to value it in the pre war days as about a penny a pound about deshi cotton. Now I think it is two pence a pound above deshi if not more. I have not bought any Punjab American this year as we cannot get it down. I merely bought a few sample bales to see what the quality was like. It is nothing like as good as it was last year. We cannot sell Punjab cotton this season owing to the difficulties of getting it brought to Karachi or Bombay. It looks as if I shall have to bring what wo have bought down in certs. Judging from samples of four or five types from sample nales at Lyallpur, the class is not as good as it was last year. The staple varies very much and the clief complaint against the cotton is this irregularity of staple. Practically anybody who uses it will tell you the

same thing. Samplo bales showed that the staple varies from I inch to II inch. It is difficult to say what the cause of this is. I have had American cotton which has been guaranteed unmixed with deshi cotton and even in that I have found irregular staple. I think guining has a good deal to do with it and possibly the picking of infiniture bolls.

4550 The ginneries mix but they do so considerably less than they used to do I am only judging from the cotton I see I cannot suggest any method by which mixing in gimeries can be prevented as you allow a man to liny cotton at all for example say a man lings a thousand maunds of American kapas and the same quantity of deshi lapits, you cannot stop his til ing them to his own factory and mixing them unless you make a law to that effect especially when there are people who ask for the mixture. I have sent pure American cotton to Bomba, I have also sent mixed stuff in which there was roughly an average of thirty per cent of deshi. I could sell the mixed stuff at a profitable price but I could not sell the other as they The price at which the mixed cotton can be purchased makes it relatively cheaper than would not pay for it the pure cotton the pure of which is too dear for its value as against the other. One has to eater for the If one sells mixed cotton at Rs 500 and charges Rs 550 for manixed cotton, they say that it will not One does not understand the Bombay cotton layers. I have sometimes not been able to sell American The next month all I could do with it was to give it away I subsy unless there was no export demand. We used to export cotton as fast as I could get it to Bombis did not rell very much of this cotton in Bombay unless there was no export demand most of it but we had two or three buyers in Bombay, people who were always willing to take it. We sent some better stuff from here after very careful selection from cotton bought up country for which we wanted rather a fancy price But it could not compete against the native's stuff which was very badly mixed and we had to sell it at Rs 30 or 10 a Lhandi helm what it was worth 1 could not six from my experience what the percentage of mixture is 11 is a difficult matter. If one talles a simple of six pounds from a bale, one may get a sample of be untiful cotton, one may take another sample from the other side and find that it is serve badly mixed. That is the art of mixing. I was tall mg to a very prominent null owner in Bombay two or three months ago. I showed him samples of this i.e. Punjah American cotton and he told mo that it was not of much use to him He may not be spunning this kind of cotton but the great complaint in Bombay has always been the irregularity of the staple. If the staple were more regular at would command a higher price I was the first per on to introduce this cotton to Lineashire. In 1913, I sold as much of it to Lancashire as I could get. If it had been a half penns more in price it would not have been taken. It was not valued against American cotton. It was sold on type and there were no complaints. They continued to take it the next year. The next year we thought that the were going to buy again and we bought a considerable amount up interpret on of the demand for it but they would not take a bale. It was lying in Bomb is for some months and we had to sell it there. I cannot remember the exact lighters but we used to get a penny a pound more than for ordinary fine. Pengals or fine 'Sind Punjab'. I fanoy that the price used to be a half penny to a penny below Middling American. I have no doubt that I could all it in I increhire now, if I could get freight but the prec of cotton is so high that coudit one are all changed. Relative values have been upset by the war. Inc price of Punjab American wroughly establing a pound. I have sold superfine Said cotton in Germans and Austria at the same price of Middling American. I forget which you that way. Nothing but Said cotton I fixed it was in that year that I sent home four or five bales of I giptim cotion from was any note to them. Mirpurl has I and it to Manchester where it was sold prictically at the same price as Middling American which was the same price as ordinary de hi Soud of that part cular year. In an ordinary year, it would have soll at to prace a pound more

4591 I thind damping ought to be made a criminal offence. I have myself seen hundreds and thousands of below at cotton damped because, in some parts of India, it is practically impossible to press cotton if it is not damped. In some places, the practice is to cover the cotton with wet guinnes. By the next morning, the cotton has also bed that amount of damp. In certain parts of India that is done every day. I have seen half a dozen here of pipe playing on a few hundred below of cotton. I think it would be a good thing to make damping to any extent penal. Dominum in the Dinjah has been considerably reduced during the last two years. Some stationary region is distributed to look at the cotton from them.

4552. I think myself that the Berar system of Municipal cotton markets is the best in India. You know what you are buying and any mixing that is done is done afterwards in the factories where it could be stopped, if necessary. The giminus deliberately mix. I do not not how it can be stopped except by legislating against it. In the nulls mixing is done to get certain counts. Cotton is mixed because pure cotton does not get its proper yellor. Talle the case of Proach. Train loads of khundesh lapus come in there is mixed with Bro. cheorem. It is quite opinly done. That, I think could be stopped. I have not been in Broach for the last six years. But the stople of Broach cotton has deteriorated considerably since. I wis there. I mean the bulk of the crop which is tendered as fine Broach. I think the deterioration is due more to the spread of goplari then to the Khandesh cotton coming in. Goplari, was increasing eight years ago and I reasoned with the dealers. The cultivators will tell you that they get a better outturn from goplaris than they did from staple cotton. I would accept the suggestion that the transport of impressed cotton from one district to another should be probabled. I think that would provent mixture. Anything that is varried on the railways can be controlled. I rain a fectory in Broach for Messrs. Gaddims which was known as a "bunded" factory. We did not allow a single cart of lapusin, that was not pure and was not the best quality of cotton. We need to get about 4,000 baless year. I study did not pay and we opened the factory to other cotton. The system there is rotten because a man comes in who is supposed to be your client—a cultivator or dealer—and brings in two or three certs of rubbish and the next day again the good certs and so it goes on. If there were a municip Lection market, it has not then the buyers could go to the market, look at the cotton that is available there, buy any lapus that they mant and take it away. I have of no way of stopping mixing.

of stopping mixing
4583 We see, Messes Gaddum and Company hed guining factories at Broach, in Berar and in Tinno
selly. In some districts, the pool charges are reasonable and in some districts they are pretty high. I know
that, in some of the districts, one third of the factories are not working and so they can been the ginning and
pressing charges especially high. These high charges must tend to lower the ultimate profits of the cultivator. The money that goes into the pool must come out of the pockets of the man who grows cotton.
Nobody clse pays it. The ginning and pressing charges are not high enough to make factories pay and that
is the origin of the pools. I have run factories in several parts of India and I how that it is the most difficult
thing to make them pay. If there are no pools, it means a tromendous amount of competition. There are

people who do not eare whether the factories pay or not. They want cotton and are propared to gin and press it for nothing. I think it would be a very good thing if these pools were regulated in some way.

4584 (Mr Hedglinson) The steple even of pure Punjah American is irregular. It may be due to bad ginning or to the presence of immature cotton. As to the ginning of cotton and the fixing of grids one complaint in Brooch is that the steple cotton loses so much of its outfurn by bad ginning. In many of the factories, the reller is covered with lint and it won't gin properly. I think many of the gins in the Punjah are run in a very bad way. They have a man there on Rs 30 a month as an engineer or fitter. He sets the grids and knives and the cotton is spoilt. I have seen seed myself with half the lint still on it after ginning.

4585 I have not attended any anction sales in the Punjab. I cannot compete with the millowners Variation in staple means that cetton is absolutely no use to Lancashire. I had very few complaints from Manchester about the cetton I sent there. It was very carefully selected. The people who took it were very pleased with it. We paid practically very little allowance on it. We sold it on type. I think that a certain smount of the rough Sind deshi cotton is used for mixing for heavery yarn on the continent. The ordinary

machino ginned Sind cotton is very white

4586 There are no saw guis in Sind. Saw gins were tried in the Punjab some time ago. These gins were a special patent. The cotten turned out looked beautiful but it was reported useless. It was life well. It could not be given away. I think saw gins might suit American cotten better than ordinary guis (Platt's). They are more suitable for long staple cotten than for short staple. I understand that Dharwar saw ginned cotten is quite satisfactory. Messes. Caddum and Company tried saw gins in Broach but they were not satisfactory. I do not know why

4587 List year I got about seven thousand bales of Punjab American cotton. It is as most beautiful cetton, clean, white and of good staple. It was roller guined. But this year the stuff is full of leaf and durt. If you have high priced rotton in India, it means had cotton. It is due to carcless guining and pressing. We used to pick out all the yellow lapas very carefully before guining and then spread it out and dry it out in the sun. That is one of the chief things to be done with. Punjab and Sind American in order to get the best cotton. Wo used to do thus but it all went to increase the cost of the cetton. Very few Indian ginners bother about it. The Boinbay mills do not pay extra for pure cotton. They say that the mixed stuff suits them

better and is cheapor in comparison.

4588 (Mr Henderson) I think I shipped home four bales of Fgyptian cotton about seven years ego. The rest was wholly American—The stuff I sent home from Mirpurkhas was ginned at Tando Adam—It was sent home to be shown to the mills at Laneashire—It was considerably better than Punjah American. The Sind ootton in general is quite a different type of cotton—If you give Sind the water you could grov any thing but I do not know much about that—My point of view as an experter is that it is much better to sell choop cotton at four pence a pound and make a small profit out of it than to sell expensive cotton at shilling a pound and make the same profit out of it. That is the expecter's point of view altogether—I I now that American cotton when roller ginned can be kept clean because I bought some cotton and had it carefully

guned and got beautiful cotton

4589 Ordinary Sind deshi cotton is a different thing from Punjab deshi. You can tender Sind against any "Sind Punjab" cotton contract. The buyer at home who wants Punjab American is quite willing to accept Sind American as a legal tender, but they don't buy "Sind Punjab" et all. All I ever sold a as sold on type. They will buy Sind (this refers to deshi) and nothing else. Bombay alone I nows why it is called Sind Punjab, at home there is no quotation for it. If you are not selling on type, you always sell on class such as "fine," "superfine," and "fully good" Sind. There is no such thing as "Sind Punjab" to European buyers. So far as Sind is concerned, there is no classification in Bombay. I do not think things can be simplified. I do not think a separate class for Sind as apart from the Punjab would do much good. It is only in the last two years that Bombay has taken much notice of Sind cotton. They said it was short staple and rough and that they could not use it. For the last two years, it has not been going to Germany and they have begun to find out that it was more valuable than they thought it was a I do not think that it would be advisable to have a separate class. The Sind crop is only about 125,000 bales. When export to the Continent stirts again, there will be nothing left for Bombay. If the outturn increased, it would be a different matter.

4590 The number of Japanese buyers is on the increase. Since they have been in the country, no other cotton buyers can compete with them, what they do is that they go, say to Multan, open an office, have a look at the cotton and buy it. If they get had cotton, they shut the office and move off to places where they can get better cotton. They can always afford to pay more than any body else.

4591 I do not thind that it is necessary to send out a man from Manchester to buy cotton in India Exporters can sell Manchester as much as they want. I know of one season in which we sold 50,000 bales of Broach cotton in Manchester. Messis Gaddums had an office in Manchester and used to cater for the Manchester trade but mills had little use for Indian cotton except the highest types. If they could get cotton equal to American, they would tall of it but they could not send out buyers to compete in the Broach mark to Whatever staple cotton you introduce in India seems to deteriorate in time. I do not thind that Manchester would take very much Cambodia, Hinganghat or bani. It has not get the machinery to deal with such ection. They go in for using higher class cotton. Hardly any Indian cotton can be compared with American cotton not even Navsan. The Navsan crop is not more than 25,000 beles. If you could produce half a million of bales in Navsan, then Lancashire would become interested in it. If there were a regular supply and the same quality with a regular staple could be assured, it would be then worth the while of Manchester to be interested in it. I do not line whether anybody in India is selling American cotton to Lancashire this year or not. I think they would buy it in present conditions and be glad to get it.

4592 (Mr Reberts) It would be useful to have an official standard for cotton, but the question is who is going to make it. It would be a good thing to have two main classes, but even if there were classes you would still have people who would not bother about them. I would far sooner sell on type than on class. Bombay does not really known what pure cotton is like. The great complaint is that there is mixed staple. One man earn use it, but other people say that they do not want it. Having a standard nught help. Practically no Punjah American cotton is sold on contract. It is sold on type. You can very seldom sell it unless you can show it. Practically the whole of contracts for Sind deshi cotton were sold on Bremen arbitration in the old days. The Bromen mutual allowance clause is the most satisfactory arbitration clause you can sell under. I am not experting now but from the point of view of an experter it is by far the most satisfactory clause you can sell under. I think the Liverpool system of arbitration is all right.

Mr M DE P WENB; CIE, CBE -

de P. WEBB, CIE, CBE

EXAMINED AT KARACHI, JANUARY 23RD, 1918

Written statement

4593 Preamble -I understand that the main object of the Indian Cotton Committee's investigations in to determine whether it is possible to increase the cultivation of cotton—in particular long staple cotton—in India, and, if so, what steps should be taken to expedite and encourage such increase

4594 Necessity for the Sukkur Barrage —In no part of India is it possible to bring about so great an exten-All that is required is water, the rest will follow slon of cotton cultivation as in Sind A scheme for bringing a perennial supply of water to a huge tract of land, nearly six thousand squire miles, between Rohri and Hy derabad has been talked about for the last fifty years. This scheme is still on the tapis. Technical problems and details have at last, I believe, all been settled and completed Unfortunately there is still one difficulty to be overcome and that is the problem of maling the scheme in accordance with the artificial requirements of to be overcome and that is the problem of mai my the beneated practices and beliefs as to the necessity of Govern the Public Works Code and the out of date yet currently accepted practices and beliefs as to the necessity of Govern The difficulty is entirely an manufacture asset of prevate cambal to build up remunerative State businesses. ginary one of our own making. The application of a little common sense and courage will, I venture to believe, quickly and certainly remove the supposed financial obstacles in the way of the construction of the Sukkur Barrage and Rohm Hyderabad High Lovel Canal

4595 Consideration of present methods of financing remunerative public works—The Karachi Chamber of Commerce have spoken strongly in favour of the early construction of this canal and have alluded to the requirements—ordinary but very unsatisfactory in this case—of the Public Works Code in the concluding lines of the penultimate paragraph of their letter of the 2nd March 1915 to the Commissioner in Sind, a copy of which I attach hereto (Annexure I)—I propose therefore, to confine my remarks solely to a consideration of the financial problem, i.e., to the supposed necessity of Government appealing to the public for the loan of money (which, he is remembered, Government itself manufactures), to enable it to commence work on this great cotton producing project. Such a loan would saddle the scheme from the first with a huge weight of

cotton producing project interest This out of date method of financing a State owned reproductive public works is, I submit, wasteful and unnecessary

(2) The appalling magnitude of the national debts of the British Empire (and its Allies), resulting from the present world war, will involve a crushing burden of interest on the great masses of the peoples of the Empire (and its Allies) that will be almost insupportable. In view of the unprecedented magnitude and pressure of this burden, it will be the first duty of Government to lighten taxation in every possible way. And no Government with a clear conception of its duty, in this connection, will lightly embark upon a policy of incurring further national debt—even to bring about so promising a project as the increased cultivation of long staple cetton (and other produce) in the plains of Sind It will be incumbent upon Government and upon every ectton (and other produce) in the plains of Sind It will be incumbent upon Government and upon every patriotic, far seeing subject of the Empire, to dovise ways whereby remunerative public works of an urgent and wholly advantageous character (such as this great cotton producing scheme) can be constructed without the unnecessary weight of perpetual payments of interest to private capitalists

(3) Let us consider, briefly the Government of India's present and, I submit, out of date method of financing the building of highly remunerative public works such as a State canal or a State rulway Govern ment appeals to the public of India to lend it some of the money (paper and coins) which Government itself has previously manufactured and issued The public does so, and Government issues in return "Government" has previously manufactured and issued Paper" that is not repayable at any fixed date in the future, but which carries interest at 3 or 3½ or perhaps come higher rate of interest per annum

This practicelly irredeemable Government Paper is considered a whist the notes themselves are legal tender for the some ligher rate of interest per annum. This practicelly irredecinable Government Paper is considered a good "reservo" against which to issue currency notes, whilst the notes themselves are legal tender for the payment of Government habilities for the land, goods and services employed in the construction of the rulway, the canal or whatever the remunerative public work may be. The immediate outcome of this method of financing a remunerative public work is that (1) the capital cost of the work is increased by the interest payable to the public on the "Government Paper" during construction, and (2) the cost of the service which the work affords the public is for ever weighted by the interest annually payable to private capitalists on the total capital employed.

employed

4596 Proposals regarding financing such works —Why should not Government in the case of remunerative public works avoid these interest charges altogether by borrowing in effect, free of interest direct from the masses of the public instead of from intermediate capitalists? In other words, why should not Government regard the time, labour and skill spent upon a remunerative public work (i.e., the actual cost of the public work itself) as good security or reserve against a special currency note issue? Such an issue would be directly secured by a remunerative State railway or State canal, and indirectly guaranteed by the whole resources of the Government of India. To guard against currency inflation, a certain small percentage of the special currency note issue would be called in and cancelled every year. In this way, net only would no interest charges be incurred (to be added to capital cost or included in annual charges for services performed), but at the end of thirty or forty or fifty years the whole of the special note issue would have been called in

and encelled, and the State would possess a valuable, remunerative public work on which no hability whatever for interest on capital was attached. This would be a very great advantage both to Government and to the people 4507 Application of proposals to Sukkur Barrage project -We may take the Sukkur Barrage and Rohri

Canal as a concrete example Let us assume this project would cost ten crores of rupees to construct far as one can see at present, Government will not be able to raise this money from the public at less than Assuming expenditure at the rate of one erore per annum for ten years, interest five per eent per annum during construction (to be added to the capital cost of the scheme) would amount to roughly Rs 2,75,00,000 (23 crores of rupees), bringing the capital cost of the scheme up to 123 crores In deciding what charges the public would have to pay for water supplied, some Rs 64,00,000 per annum, at least, would have to be included for interest alone evolusive of sinking fund charges, etc., which might easily amount to in additional Rs 25,00,000 per annum. Now compare this out of date burdensome mothed with a system of rational, interest-free State finance. The Government of India having notified that the Sukkur Burrage Röhri Canal project was a remunerative scheme of imperial importance that must be taken in hand forthwith, the Currency Department would be instructed to make and issue the necessary money. Further a Government National or Residually being of just as much value in a national Notification would explain that a Government Canal (or Radway) being of just as much value in a national

[Continued

Sind]

financial crisis as irredeemable Government Paper, the Government of India's Certificates of Expenditure on the Sul kur Barrage and Rohm Canal would be legalised as proper securities or reserves against a special issue At the present time, the total paper currency in circulation is over of Sukkur Barrage and Canal notes Rs 100 crores Assuming that it will take at least ten years to complete the Sukkur Barrage and Rohri Canal, the Currency Department would be instructed to produce and put at the disposal of the Public Works Department of the Local Government one erore of rupees per annum, gradually adding to this figure till the total special i sue raised the whole of the paper currency in circulation in India to Rs 110 crores. All these notes including the ten crores issued on account of the Sul kur Burrage and Rohm Canal, would be cheashable in silver if the public required, just as at present. And it would be the business of the Currency Dopartment to leep sufficent silver come in reserve for this purpose. During the period of construction of the Barrage and Canal, no interest whatever would be payable, and a saving of 23 crores of rupees in the capital cost of the scheme would therefore be made. Moreover, in fixing the rates payable by the public for water, it would not be necessary to include Rs 80,00,000 or Rs 90,00,000 per annum on account of interest and sinking fund, but simply, say, Rs 20,00,000 per annum for the americation of the special issue of paper

(2) I am quite confident that the saving of this old fashioned tribute to private capitalists would convert the Sull ur Barrage and Rohri Canal Project into a highly profitable undertaking whorein not only the people and Government of India would benefit enormously in a great variety of ways, but also the peoples of Frigland and of the Empire from the production and use of vast quantities of raw cotton and other valuable produce

4598 Objections considered -I am well aware of the old stock objections to issues of paper and metallic money tools other than those which at present receive popular sanction. Although there is little or no resemblance between the special issue of paper currency advocated above and the assignate of the old French Republic of 1789—94, or the currency ventures of John Law in Paris of a century ago, I am quito prepared to hear from professors of political economy and from bankers and financiers (whose businesses by the way are largely based on the umbroken confidence of the public in bank forms of money and credit) that the above proposal is on a par with the old discredited monetary methods—that it is radically unsound wholly impracti in the extreme. Nevertheless I am ready to defend my proposal and prove its soundness. Moreover, I venture to predict that the present world war will force upon the peoples cal, and dangerous in the extreme and practicability of the Empire and the rest of the world a recognition of the absurdity of burdening remunerative State enter

prises with a perpetual toll of interest to private capitalists and financiers

(2) In modern enabled States all forms of money are, in essence, simply certificates of service performed or goods supplied If our reads with eye of leason, one can see clearly inscribed on every coin, cheque, bill or note PAY BEARER AS MUCH AS BEARER HAS DONE OR SUPPLIED, CERTIFIED HEREBY TO THE LATUAT OF (say) TEN RUPEES Whether the certificate is written on metal, or on paper, TO THE LATUNT OF (say) TEN RUPEES whether Government certifies to the amount (as in the cases of coins and currency notes) or private individuals certify to the amount (as in the cases of cheques, bills, etc.), the real meaning of the money is the same. More over as soon as its general acceptance is guaranteed by oustom or legislation, a money certificate becomes a purchasing tool that will serve efficiently wherever confidence in the honesty and stability of the Government exist. With the destruction of Prussian militarism, all danger to the leading governments as well as the numor governments of the world will disappear for soveral generations, and the necessity for the use of gold and silver on which to inscribe current money certificates will be very greatly reduced. The precious metals will be largely relegated for use as national reserves and the currency of the future will be paper rather than metal certificates

4599 Conclusion —I contemplate the production of a comprehensive and exhaustive explanation of the monetary principles foreshadowed abovo as soon as the present world danger has been overcome the meantime as cotton and other raw products will be very urgently needed directly the war ends, as Sind can produce those products in a st volumes for the benefit of all, provided adequate water supplies be assured, as a scheme has been prepared for bringing on to Sind's waste lands the necessary water supply, as that scheme has not yet been carried out owing to financial uncertainties, and as those financial uncertainties are the outcome of adherence to an out of date and wasteful method of supplying the necessary monetary tools and monetary certificates for the work, I have now put forward this definite monetary proposal that will, I am confident, nicct the case, in order that a beginning may be made is soon as possible in clearing up and throwing as de the mass of monetary ignorance and prejudice that everywhere exists and that at present blocks the way to the conversion of eastern Sind into one of the richest tracts of agricultural land in the

world

Annexure I

Copy of a letter dated 2nd March 1915, from the Chairman, Karachi Chamber of Commerce, to the Commissioner in Sind regarding the Sukkur Barrage and Rohri Hyderabad High Level Project

I lieg to acknowledge receipt of your letter No. 1001 of the 13th. November 1914, forwarding a copy of the Report of the Committee appointed by the Sceretary of State for India to consider the Sukl ur Barrage and Robri Can is Projects My Committee desire to express their thanks to Government for kindly giving them an opportunity of studying this most important Report which may greatly affect the irrigational development of Sind in the immediate future. My Committee are very glad to learn that Government, as at present divided do not consider that there is any immediate cause to fear that withdrawals of water in the Punjab for the great Punjab irrigation projects will scriously affect the levels of the Indus in Sind, or the supplies of water available for the canals of Sind My Committee note, however, that this matter is being thoroughly my estigated and that no final pronouncement, therefore can yot be made. This Chamber will look forward at the transfer of the canals of the canals of the canals of the canals of the control of the canals of t with the Leenest interest to the results of the further investigations now being made

2 Mr Con muttee have very closely and anxiously studied the Report of the Special Commuttee appointed by the India Office and they venture to make the following comments which they beg may be transmitted

to the Sceretary of State for India through the proper channels

3 My Committee are very disappointed with the Report of the Sukkur Barrage and Rohm Canal Committee for the reason that, firstly, the Committee's findings are all of a negative character, and, secondly, the Committee appear to hold the view that the improvement of Sind's present mundation canal system in the direction of percinial irrigation is a matter of no particular urgency or importance

4 The Committee appear to have rejected all the schemes considered by them on the grounds that they

involved more furnieral risks than the Committee considered it expedient for the Government of India to under

take

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[Continued

5 The Government of India's project for a combined Barrage and High Level Canal System appears to show an estimated return of 428, 347 or 417 per cent per annum according to the period of construction adopted, namely, thereen, fifteen or sixteen years. These figures would be oven higher if enhanced land revenue were included. But the Committee point out that the fifteen year scheme is "unproductive," and that the margin of "profit" on the thirteen and sixteen year projects is so small, that "only if the estimate is extraordinarily accurate can the scheme be regarded as a productive public work." And so the Committee assuming that the estimates under consideration will probably be considerably exceeded, dismiss the whole project on the specific and definite grounds that "it will not prove to be a productive work." (section 29)

6 In their consideration of the proposed High Level Rolar Canal project without any Barrage at Sukkur, the Committee take the ground that the silting at the head of the canal "might be such that the canal could not be regarded as a safe percental source of supply". This possibility decodes the Committee to regard the proposed ernal as an immidation ernal, and brings the Committee to the conclusion that, as in immidation canal it "would probably not be productive" (section 26)

7 Moreover, the Committee, whilst considering the construction of a test channel for the purpose of discovering whether silt would be deposited in great quantities or not, recommend that even this tentative outlay should not be meurred, because, in the opinion of the Committee, such a test channel "would probably silt" and "if used as a supply channel for the Rohm and Khairpur Canals, would certainly silt." The test channel "might be successful for a time, but if any conclusion were based on that success, it might be attended with disastrous results"

8 The Committee considered a suggestion of Dr Summers that the first and second sections only of the Robin Canal (without a Barrage) should first be constructed and the effects watched and studied, etc. But whilst admitting that there was "something to be said for this idea." (Section 32), the Committee point out that "it would be attended with some risks," and in the absence of "very carefully prepared forceasts of revenue and expenditure accepted by the authorities in India, the Committee were unable to give (this scheme) the necessary entired examination."

the necessary critical examination

9 Thus the impression created by a study of the Committee's Report is that the Committee were not prepared to take any risks of any kind whatever The fact that Sind is an "immediation irrigation country" is repeatedly referred to (sections 9, 10, 13, 38, etc.), and this backward state of affairs is accepted by the Committee of The advance of Sind from a condition of inundation mittee as being quite good enough for Sind (section 38) irrigation similar to that of the time of Alexander the Great to the status of a land well watered by first class perennial canals is regarded by the Committee as "only" an improvement "on conditions which appear to be fairly well suited to the special circumstances of the country," and the Committee accordingly recommend a policy of further waiting accompanied by the preparation of another Sukkui Barrage and Rohm Canal project and estimatom case the heavy withdrawals of water for the Punjab Canals should necessitate a scheme

of perennial irrigation for Sind (section 33)

10 My Committee deplore this attitude towards the irrigation of Sind and the risks is experable from this In the opinion of my Committee, the conversion of Sind's inundation canals to perenmal canals great work wherever possible, and the extension of flow irrigation to lands formerly prosperous, but at present neglected owing to want of water, should be the guiding principle of Sind's irrigation policy. That the construction owing to want of water, should be the guiding principle of Sind's irrigation policy. That the construction of a great work, such as the Rohri High Lovel Canal with (or without) the Sukkur Barrege must involve risks, my Committee can fully realise, but no great works can be undertaken without risk The Sucz Canal, to mention one pertinent example, would certainly never have been constructed to this day, had its promoters taken the same views of financial risks as those which have influenced the India Office Sukhur Burrge and Rohri Canal Committee The margin of risk expressed in a percentago of interest per annunis a very small one It admitedly diseards estimates, which include enhanced land revenue (section 15), and my Committee understand that it omits altogether consideration of the vastly increased population and wealth, which perennial canals in Sind would create, with greatly increased revenue to Government from indirect sources, such as meome tax, customs dues railway revenue, etc

In these circumstances, my Committee would strongly urgo upon Government the numediate and active carrying out of the scheme referred to in section 32 of the India Office Committee's Report That it is to say, my Committee urge the immediate preparation of the necessary estimates so as to permit of an early commence ment being made on the first and second sections of the Rohn Canal The experience thus gained would no

doubt go far to decide the problem of the possible silting up of the head of the Rohm Canal

Mr M DE P WEBB, CLE, CBE, called and examined

4600 (President) I understand that all the experts are now in favour of the Sukkur Barrage but whether it would be better to start with the canal and construct the barrage later, I cannot say is to "get a move on" I do not mind what school of canal engineers does the work What I want to do

4601 As to the method of financing that I have suggested in my written evidence, it would mean the ereation of another ton ereres of money which would bo used in ten years on the work done on the burrage Instead of floating lorns, Govornment should increase its currency, i e, its paper currency This is rather a question of high finance then of cotton I have long been propering notes with a view to putting forward this scheme of finance for any remunerative State works after the war. For the reasons explained in my note, I think that the load of national debt will be so appalling after the war that it will be absolutely necessary to devise some way of earrying out remunerative public works without burdening them with

interest payments to private capitalists, which seems to me now a days quite unnecessary

4602 My firm has done a good deal in the way of previding light railways in Smd We have completed
two light railways in eastern Sind, north and south from Mirpurkhas They are serving cotton districts,
the other ones are not so much for cotton We have another scheme under contemplation for eastern Sind and if the canal project matured, we should, I think, simultaneously have several railway projects to put before Government that would facilitate the building of the conal as well as the transport of the cotton after Wo are quite prepared to put as many light railways in the tract as there would be need for I an believer in light railways for this tract. The start we have made, justifies such a belief in every way a strong believer in light railways for this tract

4603 I have no personal experience of the Smdhi as a cultivator I have heard that he is rather a lazy fellow, but that may be due to the climate In Sind, in the middle of the hot weather, any body's energy The stimulus of assured irrigation might act as an incentive to increased cultivating would disappear offort

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THE BOMBAY COTTON TRADE ASSOCIATION

4604 The only theoretical objection to special issues of currency of the kind I propose, is the risk of in flating the currency and producing a novious rise in prices; but I think that this possibility would be guarded against partly by the rolative slowness of the issue of the new money and partly by the additional work which would be brought about and which would tend to absorb the additional currency. Any inflation would eventually be corrected by the special currency being withdrawn over a series of years by the sinking fund which I have suggested for this purpose

4605 (M. Henderson) If currency were inflated, it would affect all India Some people like currency to be inflated. One of the Economists of an important Indian University has recently advocated that in order to stimulate industrial activities throughout the country, the currency should be deliberately inflated My system of financing remunerative public works once admitted, there would be many applications from other provinces which would want their remunerative public works constructed in the same way

to be allowed to have the advantage of trying the experiment first

4606 (Mr Roberts) I think if attractive conditions were created by a perennial supply of water, such conditions would be, in themselves, an inducement for cultivators from other parts of the country to come in and help the scheme along. If they were assured of a perennial supply and were not frightened by the in and holp the scheme along occasional break downs from which we suffer now, there would be every chance of successful colonization Colonists might be attracted if cultivation were more intensive than it is now I am not quite sure how the Sind cultivator looks at it

VI.—Bombay.

THE BOMBAY COTTON TRADE ASSOCIATION

EXAMINED AT BOMBAY, JANUARY 28TH, 1918

Written statement

4607 Preamble —In considering the evidence to be given on behalf of this Association before the Indian Cotton Committee, we have observed that a large majority of the questions asled by the Committee are in tended almost exclusively for those witnesses who are actively engaged in, or closely connected with, the cultivation of cotton, and in view of the fact that we, as cotton merchants, can lay no claim to expert teclinical knowledge of cotton cultivation and that few, if any of us have had any recent experience in the cotton districts, we propose to leave these technical questions to those who are better qualified to deal with them moreover from the instructions given to witnesses that it is not intended that individuals or bodies invited to give evidence should attempt to answer all the questions and that witnesses need not restrict themselves to a sories of answers to the question on which they desire to give ovidence. We feel, therefore, that we shall be quite in order if we disregard the sequence of the questions asked and submit our evidence in the form of a more or less connected statement, with only passing reference to the Committee's questions The following then are the points with which we propose to deal in our evidence, viz

(1) Increased production of cotton in India

(11) Comparative merits of long and short staple cottons (Question 45)

(iii) Deterioration of long staple crops (iv) Introduction of exotic cottons (Question 28)

(v) Marketing (Question 30)

- (vi) Classification of trade descriptions (Question 31)
- (vn) Statistical information (Questions 33 and 34)

(viii) Licensing of ginning and pressing factories.

(1x) Daily quotations for up country markets (Question 35)

4608 Increased production of cotton in India -- It is a well known fact that the world's demand for raw cotton is continually increasing and we think it is generally agreed that the world must look for its increased supply, especially in the near future, to India In the first place, therefore, we consider it of vital importance that every effort should be made to increase the production of raw cotton in this country and in the British Empire generally, in order to ensure an adequate supply for the world's demands, and, looking at the matter from the Imperial point of view to render British manufacturers, be they in England, in India, or in any other part of the British Empire, more independent of imports of the raw material from foreign countries

4009 Comparative merits of long and short staple collon - From our consideration of the necessity for on deavouring to increase the production of cotton in India arises the question whether the cultivation of long staple cotton in India should receive special attention, or whether offerts should merely be directed towards the increase of the total quantity produced irrespective of quality In this connexion, we fully realize that in any measure which may be taken in the direction of improving the Indian cotton crop, the interests of the cultivator must be the foremost consideration. The needs of the manufacturers lie undoubtedly in the direction tion of an increased quantity of long staple cotton. It is a well known fact that Great Britain has so far been a very small buyer of Indan cotton, the exports of cotton from India to the U K having reached only about three per cent of the total crop before the war, whereas England used to take about forty per cent of the total American exports. The reason for this is that most Indian cottons are not long enough in staple or good enough in class to satisfy the needs of manufacturors at home. We see no reason, however, why with careful selection and cultivation the Indian crop should not find its way more readily to the mills of Lancashire. But more important still perhaps is the fact that the interests of manufacturers in India also lie in the direction of an increased supply of Indra long staple cotton Enormous quantities of cloth are yearly imported into Indra to meet a demand which the Indra mills cannot supply, because they are unable to obtain sufficient quantities of long staple cotton to manufacture yards of equal fineness. Since the war, owing to reduced supplies from elsewhere, Indian mills have found markets for the sale of their goods (in Africa for example) which were closed to them before It is true, however, that those markets have had to be content with some what coarser fabrics than they were accustomed to, owing to the curtailment of the usual supplies and it may be equally true that after the war these markets will resort to their former sources of supply and will be closed

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Continued

again to Indian manufacturers if the necessary quantity of long staple cotton is not available to maintain or improve the quality of their products

(2) While pressing, however, for the increased production of long staple cotton in India, we wish it to be understood that we are not advocating an increase in long staple varieties at the expense of the present total production of short staple cotton, the latter being required for the spinning of coarser yarns such as are manufactured in great quantity by the mills in India as well as in Japan and on the Continent of Europe. To sum up our views on this question of staple, we suggest that any increase that it may be found desirable to make in the quantity of the Indian cotton crop shall be represented by long staple cotton in the sense, however, that districts which used to produce long staple cotton in former years and have now gone over to the cultivation of short staple varieties should be restored to the cultivation of long staple cotton, since they are evidently suitable for this purpose, while an approximately equivalent quantity of short staple cotton might be grown on new land acquired for the cultivation of this commodity. The necessary quantity of short staple cotton will then be assured, and a larger proportion of long staple cotton will enable our mills to produce finer cloth and thereby compete more successfully with other manufacturers.

and thereby compete more successfully with other manufacturers

4010 Deterioration of long staple cotton crops in India—We have just mentioned the regrettable fact that some districts which formerly used to produce long staple cotton are now producing shorf staple cotton, in some cases oxclusively and in other cases to a very large extent, and in most cases it is no doubt true that the cultivation of the short staple cotton is more remunerative to the ryet and offers greater advantages than the cultivation of the long staple variety, owing to the former giving a better ratio of lint to seed, a better yield generally speaking of seed cotton per acro, and a quicker return of money to the cultivator owing to earlier maturity. In addition, the short staple varieties are as a rule less susceptible to the vicissitudes of climatic conditions. In order to render the cultivation of long staple eatines will effect the cultivator approximately the same advantages as the short staple variety. This problem, however, is one for the agricultural experts to selve

will therefore be necessary to find a long staple plant which will offer the cultivator approximately the same advantages as the short staple variety. This problem, however, is one for the agricultural experts to solve (2) As regards the cultivation of short staple varieties taking the place of long staple cotton, we would here refer to correspondence which this Association had with the Director of Agriculture, Bombay, (Annexure I), in respect of goghan cotton gradually ousting the long stuple cotton in the Broach district Goghan cotton is admittedly short in staple and rough, but on the other land, like other short staple oction, pessesses the advantage of a ligher yield of lint. We have it, however, on the authority of the Agricultural Department, Bembay Presidency, that goghan cotton does not give a better yield of seed cotton per acre than desh. Broach. On page 27 of the Annual Report of the Department of Agriculture, Bombay Presidency, for the year 1914 15, figures are adduced to show that the substitution of pure goghan in place of desh. Broach would add materially to the export of cleaned cotton from the districts and it is stated that "these figures show that the production of clean cotton would be increased by 15½ per cent., if we assume that the yield of seed cotton remains the same. There is some evidence that, on the very heavy black soils, goghan does not yield more seed cotton per acre than desh. Broach desh was valued by prominent millowners at Rs. 280 per khand; and goghan at Rs. 225. Since the Department of Agriculture states that goghan does not yield more seed cotton per acre than desh. Broach, it would appear from the figures quoted by the Dopartment of Agriculture that the cultivator by growing goghan in preference to Broach desh; gains 15½ per cent in yield of lint, but loses 10½ per cent in value and that he therefore sustams a net less of four per cent. With this evidence before us, we are very strongly of opinion that the cultivation of goghan in the Broach districts slould be discourag

Comparison of Bombay market values of Fino M G Broach, Good M G Westerns and Good M G Kumplas in the months of March 1913 to 1917

| | 1913 | 1914 | | 1915 | 1916 | 1917 |
|---------------|----------|---------|---|----------|----------|----------|
| Fine Broach | 339 | 276 | | 212 | 278 | 403 |
| Geed Westerns | 307(32) | 260(16) | | 197(-15) | 293(+18) | 403 |
| Good Kumpta | 310(-23) | 273(3) | - | 207(5) | 309(+31) | 415(+12) |

This above figures go to show that Broach cotton has lost in value in comparison with other styple varieties since the advent of goghan. In 1917 the difference in favour of Westerns and kumpias would have undoubtedly been larger if Broach had not been "cornered" by speculators, and it may be mentioned that the success of speculation in this case was due in a large measure to the very considerable proportion of goghan mixed with the Broach, which resulted in the rejection in survey of a large number of the Broach tenders

(3) We are of opinion that the substitution of short staple cotton for long staple varieties is, in a large measure, due to the fact that long staple cottons have in the past not commanded a price corresponding with their intrinsic value whilst, on the other hand, short staple varieties grown in districts otherwise known for the production of long staple cotton have for a reason which we will presently explain commanded prices considerably above their intrinsic value. As long as short staple ootton is grown in these districts to such an extent only that it can be marketed mixed with the long staple variety of the same district, the short staple cotton passes off at approximately the same price as the long staple cotton. With the increase of the production of short staple cotton, the admixture deteriorates in quality, particularly in staple, and the market value of the admixture then gradually deprenates. Once short staple ootten has entirely ousted the long staple variety in a certain district and must therefore be pressed separately and pure, its market price comes down to a par with its instrinsic value in comparison with other descriptions. This has been the easo with Muttia* and we think it will be the case with goghan Breach and with all other varieties that may follow this course.

(4) Efforts should be made to secure for the ryot the full intrinsic value of stapled varieties and some measures which we suggest should be taken in this direction are dealt with by us in paragraph 4612 below but we may here mention that, with the further development of the weaving industry in this country and the consequent steadily increasing demand for long staple cotton by Indian mills, this problem

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is likely, as time goes on, to solve itself automatically to a considerable extent A relative appreciation in . the value of long staple cotten has already been noticeable for a few years past

- (5) A very serious obstacle to more rapid progress in the automatic appreciation of the value of long staple cetten is the largely provalent practice of indiscriminately mixing good and had cetten up country, a practice which at the same time is largely responsible for the general deterioration of the quality of Indian ootton We may say, without exaggeration, that, with the exception of a few districts in India, stapled cotton very raicly finds its way to the clief markets, especially to Bombay, in an unmixed state Many districts which used to be i chowned for a supply of long staple cotton have thus acquired a bad name with experters and Indian consumers alike, and as it is almost impossible to detect a slight admixture of inferior oxporters and Indian consumers alike, and as it is almost impossible to detect a sight admixture of interior quality before such cotton actually passes through the spinning machinery, even pure cotton from such districts is approached by buyers with district and the price offered is reduced accordingly. It is not only a question of short staple cotton being mixed with long staple cotton, but many cultivators and merchants up country seem to consider it advantageous to mix inferior qualities, such as rain damaged cotton, with good lots thus hoping to pass off the damaged article as the price of the sound commodity. A largely prevalent practice also in many districts is to mix seed or to adjust the ginning machinery in such a way that seed is cut by the gin knives and allowed to pass into the ginned cotton (Westerns, kumpla, Khandesh, Khandwa) and there is no doubt that this practice of mixing seed with cotton reduces the export value of cotton materially, because many mills at home, being accustomed to consume chan cotton only, have not got the machinery to render such parcels sufficiently clean. We are unable to suggest any incressive to put a stop to the adulteration of cotton up country since the Cotton I rauds Act introduced by Government many years ago did not prove a success and had to be repealed. As regards mixing short staple with long staple cotton, however, we would suggest that Government be requested to prohibit the transport of short staple cotton, be it in the shape of seed cotton or ginned cotton, into districts where long staple varieties are grown, except under special licenses which should only be issued to people who require such transport for the purpose of consumption, or for the purpose of obtaining bon i fide facilities, such as more efficient pressing, but where such special licenses are granted thier purpose should be clearly defined. We have heard of instances where inferior cotton and in some cases even mill waste have been brought to up country places in the shape of full pressed bales for the purpose of illegitimate mixing and we therefore think that even the transport of full pressed bales from one district to another should be prohibited oxecpt under special licenses. It would, in our opinion, be a comparatively case matter for Government to prohibit such transport by rail, but a large quantity of cotton is transported for mixing purposed by road, and we realize that any general restrictions pleced by Government on road transport would be difficult to We think, however, that the mere fact of Government's taking power by legislation to impose such restrictions of transport would have a salutary effect, and if Government should find that transport for the purpose of illegitimate mixing was taking place between certain districts, the restrictions might be put into operation in respect of such particular areas. Another measure to check illegitimate mixing would, in our opinion, be for Government to license all ginning and pressing factories and to make it a condition of the license that each factory should place a distinguishing mark on overy bora and on every bale of cotton turned out We would like to make it olear that we do not consider it at all fersible that a factory should be held responsible for any mixing that might take place within its precincts, but we submit that the mere fact of it being possible by me ms of the distinguishing marks on the boras or bales to trace the factory where cotton has been mixed and thus to identify the dealer for whom it was originally ginned or pressed, would bring about satisfactory results. Exporters and consumers would very soon mark down the factories notable for mixing and instruct their buying agents up country not to buy any cotton turned out by such factories.
- (6) Before concluding this paragraph, we would also suggest that the watering of cotten be prohibited Damping cotton slightly has, in our opinion, no ill effects on the quality, whilst on the other hand it reduces the strain on the pressing machinery There is, however, no doubt that watering is processed indiscriminately in many places and as it is impossible to say where legitimate watering and and fraudulent watering begins, we suggest that watering be prohibited entirely
- 4611 Introduction of exotic cotton —From our experience it would appear that the introduction of exotic cottons has only so far proved a success in the case of Cambodia cotton and possibly also of Punjab American Cambodia cotton from the point of view both of staple and yield has proved eminintly satisfactory and it is the only variety of long staple cotton of which we are aware which has ousted a shorter stapled variety, namely Timevelly, on account of its yielding a larger amount of seed cotton as well as a larger outturn of lint per acre, thereby proving more profitable in every way to the cultivator. We therefore think it would be very advisable to introduce Cambodia cotton into other parts of India should this be found possible from an agricultural point of view As regards Punjab American, however, we are rather inclined to think that this cotton will deteriorate unless firsh supplies of seed are constantly imported
- (2) While wo fully appreciate the efforts which are being made by the agricultural authorities in the Punjab and various parts of India to introduce into their respective districts long staple exotic cotton, we would suggest as a general principle that more importance should be attached to the promotion and development of indigenous long staple growths than to the introduction of foreign seed. In this connection we would draw attention to the laudable efforts which are being made by the Director of Agriculture in His Highness the Nizam's Dominions to reintroduce into the Hyderabad districts the judgenous long staple cotton or Hyderabad gaorani as this variety is new termed. This is a tendency which we consider should be imitated in all the cotton districts of India where long staple cotton used to be grown, and we would suggest that an ever increasing number of Gayarament a parameter forms about the properties of the pro number of Government experimental forms should be inaugurated with a view to selecting seed and furnish ing the rvots therewith

4612 Marketing -The question of marketing will doubtless be dealt with oxhaustively by up country witnesses and we therefore propose to state our views on this point very briefly

(2) It is a well known fact that the existing system of marketing cotton is very unsatisfactory in a large number of districts and we may add that generally speaking the cultivator is the cluef sufferer from the irregularities which obtain. The best method of obviating these exils is, we think, to organise and regulate all up country inarkets, in somewhat the same way as has already been done in the Berars, and for the information of the Committee we are attaching a copy of the Berar Cotton Market Rules,* which might well be taken as a model by other districts. a model by other districts which have no properly organised markets

13) One of the principal advantages of a well regulated market is that the cultivator can generally be sure of obtaining a fair price for his wares. In many districts, the ryots have to bring their cotton direct into the factories and sell it there instead of in a central and general market where all buyers assemble, and they consequently fail to obtain good prices ening to the fact that free competition is not possible under these circumstances

(4) The point, however, to which we attach the most importance is that the cultivator should be put in a position to sell his produce when he likes and to whom he likes, and that he should come into direct contact with the bona fide bayers of cotton. At present cultivators with few exceptions sell their cetton through middlemen, from whom they generally tale advances of money on their crops before the harvest, and such a system naturally expesses the former to numerous disadvantages. Efforts should therefore be made to render the ryet independent and we strengly advocate the further development of the ce operative banking system, a general extention of which would indoubtedly place the cultivator on an altogether sounder financial footing and would enable hun to insist on receiving the actual intrinsic value for his cotton

4613 Classification of trade descriptions—We do not consider the present system of classification of Indian cotton to be satisfactory as, for one reason, it fosters the "fetish of names" instead of bringing the character of the staple and thus the actual intrinsic value of particular descriptions of cotton into promi Another reason is that the present method of classification facilities speculative lightling of the market masmuch as it divides the total range of descriptions of cotton into too many small groups and circumscribes too closely the districts from which material may be drawn for tenders against certain

recognised trade descriptions

(2) With regard to what we have called the "fetish of names," we would refer to our remarks in paragraph 4610 where we stated that mixed cetten coming from a district with a good reputation generally commands abetter price than superior parcels emanating from districts less renowned. Buyers as a class allow themselves to be very strongly influenced by the "name" of the station a certain parcel of cetton may be coming from instead of locking to the intrinsic value of the cotton only. Many good lets of cotton have had to be sold below their actual value simply because they happened to had from a district not particularly favoured by buyers and it is the experience of all of us that it is most difficult to sell cotton in Indian markets without disclosing the name of the station where it was pressed. We are afraid the present system of classification rather helps this tendency of buying "names". In the expert trade, cotton is usually sold on types representing a certain grade of clevaliness and colour and a certain length and fineness of staple. The buyer overseas but a the quality represented by the type and he does not question the origin of deliveres against such purchases so long as they correspond in class and staplo with the type on which he has bought. An experter, therefore, is not rigidly confined to any particular district for the purchase of cotton sold on types.

(3) The only possible remedy we can see would be to do away with the system of selling cotton on the

General names of descriptions such as Comra, Khandesh, Muttin, Bengal, Westerns, kumpla, Dharwar, Coconada, Tunnovelly, Punjab American, etc., nught be retained, but beyond this the class, stuple and character of the cotton should be the only consideration. This system is practised in America where cotton is sold on class and on a certain length of staple such as "Middling 22 24 millimetres" or "Middling 28 30 millimetres." We are unable, hewever, to recommend the introduction of a similar practice in India as we are fully alive to the difficulties attendant upon any alteration of the present system, and we can therefore only urge the desirability of eo operation on the part of the bivers and the consumers who should endeavour to purchase their cotton on the basis of intrinsic value and quality and not on the basis of the station name which the cotton may happen to bear. This desirable end might be achieved by the institution of a vigorous propaganda by the various agricultural departments in the shape of newspaper articles and suitable pamphlets. Since the advantages of Punjab American cotton have been prominently brought before the consumers in India, the Bombay mills certainly show more interest in this description than heretofore and the propaganda set on foot by the Director of Agriculture, Hyderabad, in favour of Hyderabad gaorani cotton should also, in our opinion, show good results

Statistical information -- Wo consider that the figures showing area in the cotton forceasts are reliable but that less reliance can be placed on the outturn forecasts To improve the latter, we would suggest that estumates should be drawn to a much greater extent than is the case at present from non official agencies such as local merchants, mills, gins, presses, etc , and that too much reliance should not be placed on the official reporting agency which is at present a revenue agency moner than an agricultural reporting agency. A further check on the forceasts would be obtained by instituting careful enquiries from the ginners, after the guining of the cotton is commenced, as to how the crop is turning out in view of the ginning percentage shown

(2) With the exception of our remarks as to the outturn forecasts, the only enticism we have to offer with regard to the statistical information published by Government is in connection with the fortaightly cotton press returns which are at present so meomplete as to be almost valueless We fully realize that the various Directors of Agriculture concerned are doing their utmost to obtain accurate figures. But the figures are more meanible to and the whole returns are moreover stultified by the unreliability of the information obtained from the Nativo States which have, in many eases, we understand, refused to submit returns at all suggest from that all the returns, including those from the Native States at present collected by the Bombay Chamber of Commerce should be taken over by the Department of Statistics With regard to the returns Chamber of Commerce should be taken over by the Department of Statistics. With regard to the returns from the British Provinces, we would further suggest that a system of licensing all ginning and pressing factories should be instituted and it would then be an easy matter to obtain correct figures. If this system were introduced and proved successful in British territory, the Native States might then be induced to follow the example of the British Provinces

(3) We would also suggest that the Department of Statistics should employ a staff of travelling auditors to collect figures from presses, mills, railways, etc., and that the figures so collected might be published quarterly thus affording a valuable check on the fortnightly returns, which latter would be extremely useful if reliable, but which could be dispensed with in favour of, say, quarterly returns if the difficulties exper enced in collect

ing accurate figures proved to be insuperable

4615 Proposed licensing of ginning and pressing factories -In paragraph 4610 and in our discussion of the question of statistical information we have proposed that a system of licensing all ginning and pressing factories should be instituted, and we think it would be advantageous briefly to define the scepe of the system proposed. We would suggest then that a Licensing Board should be instituted in Bombay, consisting of one or two Government representatives, who should be in close touch with the Agricultural Departments, and of, say, four non official members representative of the interests of the ginning and pressing industries and of the

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THE BOMBAY COTTON TRADE ASSOCIATION

[Continued

All licenses should be granted by Government on the recommendation of this body and should consumers bo assued with the following objects only :-

1) To control the erection of new factories

(2) To provide for identification of quality of cotton coming from gins and presses by a system of official marks stamped on all boras or bales emanating therefrom

(3) To ensure the return of reliable statistical information

4616 Daily quotations for up country markets —We do not think that the telegraphing of daily quotations up country would be of any great assistance to the cultivator in view of the fact that rates for ready cotton are often unavailable, no rehable record of ready transactions being under present conditions obtain The majority of the quotations therefore which would be available for wiring able in the Bombay market up country would be for forward delivery and such quotations, owing to speculative transactions, being so frequently at variance with the prices at which actual cotton is to be bought, would in many cases prove

misleading rather than helpful to the cultivators and merchants in the districts

4617 Levy of an export tax on cotton to meet cost of proposals—In conclusion, we would urge a further increase in the number of agricultural farms, still more extensive demonstration work and teaching of scientific cultivation, increased efforts to popularise agricultural schools and incidentally an increase in the number of This and the carrying out of other recommendations contained in this report will necessitate a considerable augmentation of the staff of the Agricultural Department and of expenditure, and the question may arise as to how the latter is to be mot — In this connexion we may refer to a letter, a copy of which is given in Annexure II, which this Association addressed to the Bombay Chamber of Commerce when the question of an export tax on cotton was raised on a recent occasion by the latter body — While we are still strongly opposed to such a tax for the reasons adduced in the said letter, we think that it would not be wrong in principle, and if the necessity crose, to levy a small tax on cotton for the purpose of meeting increased expenditure in connection with the improvement of the Indian cotton erop. We submitted in our above mentioned letter that, in the case of an export tax being levied on cotton, the cultivator would not benefit, but a ould suffer to a much larger extent than Government would increase their revenue. If, however, a tax were levied and the revenue thus reased were allocated to the specific purpose of improving the cotton crop in India, the cultivator would ultimately reap the benefit of such a tax — It is with this presumption only and on the understand vator would ultimately reap the benefit of such a tax ing that the tax would be levied on the whole cotton crop of the districts in India which are under British Administration, and not on a specific part of the erop only, that we would consider such a levy justified in principle

ANNEXURE I.

Correspondence to Goghars Collon

(1) Copy of a letter No 355 32, dated 28th May, 1917, from the Secretary, Bombay Cotton Trade Association Limited, Bombay, to the Director of Agriculture, Bombay, Poona

I have the honour to inform you that the attention of my Directors has recently been drawn to certain passages in your Reports for the years 1914 15 and 1915 16, with regard to the cotton crops in the Brouch districts. My Directors have consequently carefully gone into the matter and have observed that while your Department has apparently been encouraging the sowing of gogham seed in these districts, no mention can

be found in your Report of any efforts being made to distribute and encourage the sowing of deshi seed.

It is a well known fact that the quality of Broach cotton as a whole has during the last ten years been steadily deteriorating in point of staple, and my Directors have no lieutation in affirming that this deterioration is principally due to the increasing sowing of goghars seed. My Directors are aware of the fact that the ryots are disposed to prefer the latter seed to desh; as it yields a larger outturn of lint, moreover when the quantity of gogham cotton is comparatively small it is not unlikely to sell approximately on a level with the deshi kapas My Directors would in this connection invite your attention to the somewhat parallel case of the introduction of Muttia* seed into the Kathiawar districts and the depreciation in the prices of the Muttia Lapas which resulted when little of the stapled growth was left for the dealers to mix with the Muttin cotton My Directors consider it highly undesirable that the above process, the history of which is doubtless well known to you, should be reperted in the Broach districts

I am therefore to draw your attention to the grave risk that the Breach cotten ryots are incurring in sowing goghars seed, and to request the assistance of your Department in the matter. It is felt that, in the first place, the Agricultural Department should refuse to sell or distribute any seed but desh. My Directors further consider that steps should be taken to bring it forcibly home to the Broach cultivators that in lowering the staple of Broach cotton they are exposing their produce to the gravest risk and themselves ultimately to serious monetary losses I am to add that my Directors are prepared to co operate with your Department in overy possible way in devising measures with a view to discouraging gogliar; growths and the mixture of

deshi and goghari kapas

Whilst costly experiments are being made in India to grow long staple cotton, my Directors are convinced that you will feel with them that the most strenuous efforts should be made by all Agricultural Departments not only to encourage the growth of the indigenous long staple cotton, but also strongly to discourage the sowing of short staple seed in the long staple districts, even though the production of short staple cotton may appear more attractive to short sighted cultivators, who are not aware of the ultimate reaction which is bound to take place

- (11) Copy of a letter No 6251, dated 18th July, 1917, from the_Director of Agriculture, Bombay, Poona, to the Secretary, Bombay Cotton Trade Association, Bombay
- I have the honour to acknowledge receipt of your No 355 32 of 28 5 1917 and to state that I have deferred replying to it pending disposal of some other correspondence on the same subject

2 You observe-

- (a) that your Directors attribute the deterioration of Broach cotton to the sowing of goghan cotton in the Broach district;
- (b) that while this Department is encouraging the sowing of gogham cotton in the Broach district it is doing nothing to encourage the sowing of deshi seed there

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THE BOMBAY COTTON TRADE ASSOCIATION

[Continued

- 3 I believe that the staple of goghan cotton is five eightbs inch, as against a staple of six eighths of Broach deshi as grown in the Broach District, and the colour is also very white. In some of the valuations which we have had made, the clem cotton of goghan has been valued almost as high as Broach deshi and in others considerably less. The value to the cultivator, however, depends on what he can get for the kapas. Goghan yields well, and the bivers of seed cotton will always pay a higher price for goghan, because it gins five per cent higher which means that it gives fifteen per cent more him. We did formerly distribute selected deshi seed from our Surat Farm amongst Broach cultivators and the seed gave a superior quality of cotton, but since the ginning percentage was much lower than that of goghan, the dealers paid a smaller price for the kayas, and the cultivators refused to sow it any more
- 4 Since it was clear that high ginning percentage is what the cultivators want and what the buyers will pay for in Broach we are now working at isolating the most valuable strains of gogham cotton, and have found a number of different types in gogham, which appears to be an unfixed hybrid. We are not at present distributing seed, at least not on a large scale, and shall do so only when we have something to distribute for the produce of which the buyers will pay high. It is the buyers of kapas who govern the market, and nothing that we can do will make cultivators grow crops which bring them in a smaller return than at present. If deshi is to be substituted for gogham it can be done, but only by the dealers paying more for it instead of less. The same difficulty has met us treat time that we have tried to introduce a cotton with a longer staple, and so long as the local markets are insensible to differences of staple but recognise differences in ginning percentage, the same difficulty must occur. It does not take long for the cultivators to find out what pays them best and Mr. Clouston has estimated that in Berar the substitution of a short staple cotton for a longer one has been worth an additional profit of Rs one crore per annum to the Bear cultivators. We have good strains of deshi cotton with good staple which we can readily multiply and distribute in the Broach district when it can be shown that they will pay the cultivator better
- 5 As regards the deterioration of Broach cotton in recent years, to which you refer, I would point out that the mixing of short staple cottons from outside has probably something to do with it. About 100,000 bales of short stapled cotton are annually imported by rail into Gujrat and Kathiawar, and a large proportion of this must be used for mixing with Broach cotton. An enquiry made in 1908 showed that in March to May of that year 4,000 balos of short stapled cotton were taken by rail to Broach Railway Station alone, and large quantities to Syan, Kum, Anlleshwar, Palej and Mixigaum, where there are no mills, Muttine cotton is also brought by sea from Bhaxaingar to Broach in considerable quantities and is mixed with locally grown cotton at many gins and presses. I believe that if the unrestricted import of this short staple cotton into a tract growing long stapled cotton be regulated it would be a first step in the direction of securing for the locally grown long stapled cotton its time value.
- 6 In conclusion, I may state that I quite realised the value to the nulls of long stapled cotton and that we have tried for years to introduce strains of longer stapled cotton, but experience has shown that in the local markets it is quantity and not quality that tells, and since we cannot control mail et prices the only course left for us is to adopt our work to the views of the mail ets as expressed by the prices that they pay

(111) Copy of a letter No 601 32, dated the 17th August, 1917, from the Secretary, Bombay Cotton Trade Association, Ltd., to the Director of Agriculture, Bombay, Poona

I have the honour to acknowledge receipt of your letter No 6251, dated the 18th ultime and to inform you in reply that my Directors are unable to agree entirely with the conclusions you have arrived at with regard to the sowing of gogliars seed or with the policy pursued by your Department in respect of the Broach cotton crop

In the first place, my Directors observe from your letter under reply that the Broach cultivators prefor the goglari variety on the grounds that it shows a higher ginning percentage and that a better price is consequently obtained from the dealers for the layar. My Directors would respectfully contend that this state of affairs would only obtain so long as there oxisted a considerable quantity of the long staple cotton with which to mix the goglari cotton, and that, as soon as the proportion of the longer staple cotton should fall below a certain figure, the goglari cotton would then sell only at its true value as cotton and not as cotton for mixing, and this would lead to a decrease of relative values throughout the whole district. This process is clearly demonstrated by the lustory of the Muttia crop in Kathiawar to which reference was made in my last letter to you.

In the fourth paragraph of your letter, you mention that it has been estimated that in Berur the substitution of a short staple cotton for a longer one has resulted in an additional profit of Rs one crose per annum to the Berur cultivators. My Directors have no information as to the basis upon which this calculation has been made but they would call your attention to the fact that in Berur the longer staple crops have entirely disappeared and having regard to the high premia pand for such growths they doubt whither it can be reason ably contended that the longer staple cotton would not prove even more reminerative to the cultivator. In support of their belief in the value of the longer staple cotton, my Directors would call your attention to the efforts made by the Director of Agriculture in H. If the Nizaur's Dominion to climinate entirely, if possible, the shorter staple varieties

In the fifth paragraph of your letter under reply, you call attention to the fact that about one hundred thousand bales of short staple cotton are annually imported by rail into Gujarat and Kathawar and that a large proportion of this must be used for mixing with Broach cotton. In this connexion, my Directors would point out that the bulk of such cotton is imported for the use of nulls at Surat, Broach, Burda, Ahmedabad and Virangam, though it is admitted on the other hand that a loops devable quantity is unported for the purpose of mixing with longer staple cotton. My Directors would be very pleased to co operate with your Department in its endeavours to put an end to the latter practice and would in the first instance suggest a restriction of imports of Lapas by sea or rul into the Broach or Surat districts

In conclusion, I am to state that while my Directors admit the sowing of goghan cotten may give an immediate advantage to the cultivators, it threatens on the other hand ultimately to impair the reputation and reduce the value of the entire crop of the Breach district and my Directors are therefore anxious to bring to your notice what they would respectfully submit are the incorrect lines on which your Department is working in this matter

[Continued

ANNEXURE II

Copy of a letter from the Chairman, Bombay Cotton Trade Association, Ltd., to the Secretary, Bombay Chamber of Commerce, dated the 21st, February, 1917

I am directed to reknowledge recorpt of your letter No 202 of the 7th instant, enquiring what, in the opinion of the Board of Directors of this Association, would be the effect of an export duty on cotton and

generally who would be the gamers and who the sufferers if such tax be imposed

In reply, I am to state that the matter has received the very careful consideration of my Board who, with one dissentient, are strongly opposed to the principle of an export tax on cotton. My Directors feel that in the case of any article of which India has the monopoly, the incidence of taxation in the event of an export tax being levied would fall on the consumer, but that this would not be the ease in regard to cotton holds second place among the world's cotton producers and even then her crop is only equal to about thirty per cent of the American crop The prices ruling for American cotton practically control except under exceptional circumstances, the cotton prices of the world As foreign consumers of Indian cotton buy on a parity with American cotton, it follows that in export tax would fill on the exporter and ultimately on the producer The hardship on the producer would not, however, end here India exports about 45 por cent of its growth and the price, not only of the cotton sold for export, but of that consumed locally, being largely controlled by the price of American cotton, the producer would actually be taxed on the whole crop, Government receiving the tax on the percentage exported while the balance would go into the pockets of the consumers or the manufacturers, in other words, an export tax of, say, Rs 5 per bale would realise to Government alout one crore of supees but would east the producer about 24 crores

At a time when endeavours are being made to increase the cotton production of the Empire and India is being looked to as the most promising field for immediate increased cultivation of cotton, the bare suggestion of levying an export tax would, in the opinion of my Directors, have an adverse effect on the cultivation of

My Directors feel that the benefit of the tax to the mill industry would be small while its effect on the balanco of trade and on the production of cotton would be for reaching. In the first place, India cannot at present consume in her mills and otherwise more than about 55 per eart of the crop, and the effect of an export tax would be to curtail production and thereby to reduce the amount available for export, thus tending to disturb the balance of trade. In the second place, China is Lecoming less dependent on India for her yarn and Indian mills are therefore looking and very wisely so, more to the development of the internal trade of this country. In this they have the benefit of two freights plus not meansiderable other charges, i.e., the freight and charges on the cotton exported and those on the goods imported. My Directors are ie, the freight and charges on the cotton experted at d those on the goods imported. My Directors are therefore strongly of opinion that to give Indian mills a further benefit at the expense of the cultivator is gravoly undesirable

MESSRS T D MOORE ((Chairman), O Marshall (Vice Chairman), G Boyagis, and N Wiikinson (Secretary)
Representatives of the Bomlay Cotton Trade Association, called and examined The Hon'ble
Mn G F Keatinge, CIE ICS, Director of Agriculture, Bombay, was also present

4618 (President) Mr Moore We have in paragraph 4615 of our written evidence suggested a Central

Cotton Committee but have not gono into details fully

4619 Mr Marshall Our written evidence was prepared by a Sub Committee, submitted to the Directors carried by the Directors by a large majority. Some of the Directors were prepared to go further but our and earned by the Directors by a large majority written evidence represents the point up to which all the Directors are in agreement. There are some points which we have not dealt with but have left to be dealt with by men who are more expert than a Sub Committee such as ours. There are certain points which are absolutely experts points

4620 Mr Boyagis The work of official surveys, etc., should come under the Cotton Association
4621 Mr Marshall A board such as is suggested consisting of agriculturists, botanists and so on, ld not, I am afraid, be able to deal with classification I think that to assign such duties to it would be would not, I am afraid, be able to deal with classification to overweight it with responsibilities. At the same time I am propared to support some sort of central body in Bombay. The three of us hold divergent views to a certain extent on the question of the formation of this Committee on which you are asking us to give our opinion on behalf of our Directors It is a pretty big Our memorandum shows to what extent we can speak for the Association

4622 Mr Boyagis As regards samples for valuation, it may be said that the cotton can be best certified if the samples are pressed Samples of kapas or of loose cotton are usually cent and it is very difficult to classify The best way is to take a sample of twenty pounds from a fully pressed bale which has been pressed in a Nasmyth Wilson press The sample should be drawn carefully from the bale It should be preked as A twenty pounds

tightly is possible so is not to expand and then sent down to Bombay by express train. A twenty pounds simple is quite sufficient.

4623 Mr. Marshall The Cotton Trade. Association has for years taken very great pains in regard to the classification of simple. the classification of samples All the Directors are orlled to the meeting and they sometimes spend hours on the classification

4624 Mr Moore We would like the evidence taken by the Cotton Committee published

As to the cotton forecasts these are issued rather too late August is early enough for the first one October is suitable for the second one as the September rains are very important. There ought to be one in November as the crop in several parts is well on by then. The December and February forecasts should be retained so that I would suggest one additional forceast in November As to their accuracy, we might mention that our own forecasts are very much more accurate We have discussed this question with Mr Findlay Shirras and wo have suggested to him, as we have suggested in our written ovidence, that he should go outside the ordinary official agencies for more accurate information, \imath e, should go to traders be co operation between Government officials and the trade in regard to the forecasts There should

4626 Mr Boyagıs If the Agricultural Department were much larger than it is, then it would be a better

agency to deal with the forecasts than the revenue officials

4627 Mr Marshall Provided of course, it consulted the trade The Agricultural Officer has first hand knowledge Might I suggest that in the event of weather conditions changing between the publication of one report and the next it might be possible to issue a supplementary note? A storm such as that last October may make a material difference to the erop. The publication of a supplementary note between the

[Continue?

forceasts in the event of any unforeseen entastrophe happining would be of great assistance to us has suggested the formation of a crop reporting board which could issue suppl mentary forecasts of this land.

4628 The cotton press ng and gunn ng returns are misleading and are practically of no value. Their submission should be made compulsory by legislation. The question of Native States is a so negligible.

cated one but the statistics from Native States are becoming more reliable
4629 (Mr. Wadia) Mr. Moore—The Indian mills are scrambling for long staple cotton. It would be of as much advantage to them as to Lancashure if larger quantities of longer staple cotton ne v grown in India In fact the position is so bad that they have to send the rown representatives to the areas in which long staplo

cotton is grown to buy the best qualitie for them direct

4630 Mr Marshall—Short staple cotton under the present marketing conditions pays the cultivator best owing to the larger yield per acre and the higher ginning percentage. The prices of long stiple cotton best owing to the larger yield per acre and the higher ginning percentage. and the premium obtained for it are not proportionately so great as to compensate for the los in well and giming percentage. There is no coult that this is because the long staple cotton comes on the market in such a mixed condition That is why it does not command its proper price

4631 Mr Boyagis —I find from experience that there is a fear on the part of the buver that he is not getting a pure article. Where there are long and short staple cotton in the same trust the expert I not ledge of the buyer up country is not so great that he can trust himself that he is going to get the long staple cotton in the end In other words, eliminate the inixing of long and the short staple cotton and you will reach the solution I do not think that many people up country cons der themselves expert enough to detect a mixture in long staple cotton below a certain amount. A mixture of five per cent of short staple in long staple could be detected even by a classifier of cotton, where there is such a mixture, it could be detected only in the michnery, i.e., in the mill. In my opinion, the remedy has in getting cotton in a pure state. Ban and burs are mixed with reseum and therefore they do not get their proper price. Bans is the cotton which we get from the Nizum's Dominions and burs that which is grown in the Hingangh it tract. There is also the bans which is grown in Chanda and is a very small crop, that comes in pure and gets its relative value. It is bought by the mills up country and does not come into Bombry It is one of the best cottons in India Bim Hungaighat it Rs 625 is not pure bant, it is mixed. The price of bant Hungaighat would be over Rs 700 if it came in here in a pure state. The price of Khangaon Akola is inflated to day owing to the fact that runs have caused such a searcity of satisfactory quality that practically nothing is tenderable
4632 Mr Marshall—I think that the Directors of our Association would be quite prepared to make

a separato class for Punjab American but it has never been sold on class at has always been sold on type hitherto. It has not been sold as "Fine" and "Fully Good." Just now, owing to the fact that a good deal of it comes mixed, it is difficult to sell it to the mills. I do not think that the mills would buy Punjab American on class unless there were an official guarantee that it would not come in a a mixed state. The Cotton Trade Association would be pleased to prepare a standard for the classification of Punjab American but the quest on of staple would arise. If we prepared a standard showing class we would also require large types showing the staple and the tender would have to be compared with the standard for class and with the type for staple and I doubt very much whether that would lead to an increased trade in Pumps American. I made a suggest tion last year to Mr Roberts that the Agricultural Department should send down a certain number of bal to Bombay guaranteed as pure Punjab Americ in and I offered to take these round and distribute them amon; the mills who have been rather prejudiced against Punjab Anie-ican and to get them to test it in a pure state I think that if that were done by the Agricultural Department it would improve Meantune we do not see Punjab American here in its pure condition as officially guaranteed the position enermously

4633 Mr Boyagis -Pure good quality of Punjib American has a length of stiple about 23 27 mill metres I have found from experience that the only way in which to get good Punjab American is to buy it on type. We also sell it on type. The mills buy Westerns because they find the staple is usually good and it comes to them pure. They have bought Westerns for many years past, it is a well known cotton, every body knows it. Punjab American is more or less a new crop. There is some prejudee against t as in some parts of the country it is mixed because deshi cotton is grown in the same are: People know that as a result the cotton is mixed whereas in the Westerns district, nothing is grown except the Westerns crop itself and if the staple is short, it is due to deterioration on recount of we other or something clso which earmed be helped. It would be difficult to give a separate quotation for Punjab American no a We are prepared to give a separate quotation for it but I do not think any body would buy it unless it could eldailer ebrin od

4634 I am not in entire agreement with the statement in paragraph 4610 of our written evidence hardly fru to make these comparisons when the war is on I understand that the Indian mills have secured markets now in East Africa and other places and that the demand for their goods is very great at present so On the whole, it can be said I think it is a false comparison as after the war they may not have this demand that the demand for cloth produced by Indian mills is greater than it was before the war and therefore there is a lugger demand for long staple cotton. I have some doubts whether this will continue after the war for the foreign markets may go back to the sources from which they purchased ectton previous to the war. We are all agreed that there is no doubt that the goghan mixture in Breach is doing actual harm to the Breach erop. Breach has already lost its reputation. Goghan is doing the same harm as pulchar did in the Imme We are strongly and unanunously That has been cradicated by a combination of the buvers velly district

of opinion that the goghari mixture is depreciating the value of Broach
4635 Mr Keatinge—The use of the term goghari is misleading. There is no such thing as a pure
goghari type. It has been found in the Broach district, especially in the north of the district, that there are a large number of different types which are not oven fixed types and which the Teople call poplars are ringe number of affected types which are not oven fixed types and which the people can deposite. These types split up every year and are distinguished by their high ginning percentage and short staple. In the north of Broach, seventy to eighty percent of the crop is of the goddari type. There is no a infilting as pure deshi erop. In the south of the district the percentages are more like thirty percent of goddari and seventy percent of deshi. In the Broach district, Broach deshi has coased to exist and extrainly more than fifty percent of it is of the goddar type. The percentage must go on meaning as goddar has such a high ginning percentage. The buyers of seed with seed with a high ginning percentage and the ginneries give out such seed. The ginneries are therefore automatically and steadily mercasing the amount of goddary cotton. I imagine that the crop will be almost pure goddari in a few years time and that of goghan cotton. I imagine that the crop will be almost pure goghan in a few years take and that the old deshi long staple cotton with a smaller ginning percentage will cease to exist. Surat strains have been tried in the Broach tract. The people took to them and the cotton grew well but when it was taken to the dealers, they did not pay a better price for it, because the ginning percentage was low

[Continued]

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4636 Mr Marshall -There is a certain percentage of long staple cotton mixed with goghan at present An increase in the amount of gogham is bound to exist a relative reduction in price at the present moment Bronch is priced higher than its market value on account of the old name. Bronch is a cotton which we for merly regarded as of good stuple, now a daysat is regarded as of mixed stuple. The moment the real Bronch is gone and goghari is substituted, the value of the whole cotton of the tract is lowered That is why we are so opposed to goghan. So long as it is mixed with the botter stiple, there is in enhanced vidue for it but the mement the long staple disappears it will drop to the value of the short staple

4637 Mr Leatinge—It is not the Agricultin il Department which is responsible. We have distributed no goghan seed. All we have done is to study it. We have now a selected strain which will give a ginning percent age which is ten per cent higher than that of the ordinary deshir. That is to say it will give 25 per cent. At present Broach cotton is not Broach deshi but gogham with a considerable mixture of Ah indesh There is no such thing as Broach cotton in the district Brouch cotton no longer and Ruputana cotton At present prices, nothing the Agricultural Department e in do will make the popule oxists in the old sense in the Broach district sow seed which has a smaller gaming percentage and a longer staple

4638 Mr Marshall —I should his to give my personal experience of one or two mills. They used to use Brevelivery largely indeed but during the list two or three years owing to the deterior ition in the staph they have churn ited Brouch iltogether from their mills. I have been told by our Jupinese friends that the In time, if the deterioration same complaint has been coming from Japan for the list two or three years continues Brouch cotton will drop to about the same price as Khandesh class for class. The staple of some

gogham is not as good or as even as that of Khandesh

1639 Mr Keatinge -It is a question whether one cannot get a gogham with a very fur staple had some now but we are not putting it out. What we me now trying to do is to select a type with a good staple and a high siming percentage. The cultivators won't take in thing which has not u high ginning percentage. I think your Association already knows that we are not responsible for gogham, we have not put out any seed, we are merely studying it

4640 Mr Marshall -Our Association deprecate very much samples being sent for valuation to private On our Association we have shappers, inill buyers Indian dealers and so on individuals instead of to us All classes we represented. Samples are sometimes sent to privite individuals whose a duations may be

largely influenced by whether they are using that particular style or not 4641 Mr Keatinge —It would be an advantage to us to have valuations which we could absolutely

I have been sending samples to two or three different firms

4642 Mr Marshall —If the samples had been sent for valuation to the Association, of which there are fifteen Directors, including shippers and mill owners, you would have had an opinion arrived at by a combina tion of people which, I think, would be more valuable than any other

1643 Wo know that Ishandesh cotton is being taken to Bioach and that Ruthin and mathic cotton are also taken to Brotch. We have it also on record in our office that Khandesh cotton is being taken to Akola and Khangson to be mixed there. We have already suggested the prohibition of the transport of

kapus and unbried cotton from one district to another by rail and 10 id

4641 Mr Boyagis -It is the transport by road which is the problem. I have known liping enried by tord up to one hundred miles. It is for the Government officials to find out how transport by road could be stopped. We could not come to any decision in regard to that I, would suggest certain zones from which cotton could not be transferred but that would require a tremendous organization to early out properly. Our point is that we consider prohibition of transport by road advisable, if Government think it feasible We cannot put forward any practical suggestion
4645 M. Marshall—Wo have already referred to the efforts of the Director of Agriculture of Hyderabad

to stop the watering of cotton and the prohibition of the transport of cotton from one district to another,

but we have no information as to how it is working

4646 As to whother it is difficult to mix cotton that has not been dimped, I have no experience ing short staple cotton may make it easier to mix with long staple. I have he ind the argument that bales cannot be pressed to the desired weight unless the cotton is damped. But I consider that is a mytha press cannot press cotton dry, then the press should be put in order and not the cotton

4647 Mr Boyagus—We can press 400lbs of dry cotton in our presses and I think we could press even

It is entirely a fallacy to hold that cotton must be damped to be pressed

4648 As a condition of granting a license to a factory I would suggest that standard weights should be used. I would like to go further and to suggest that as has been done in the Central Provinces and Berars, the weights should be on the bas s of the English hundredweight. It would be a great help to have standard They manage it in Bern and the Central Provinces under the market rules I think the Commis sioner enforced it If cotton markets on the Bern principle were established right through all over India then the system of standardized weights could be brought into force In some cases up country the local weights it is equal to 1,000 lbs In order to arrive at that twelve operations have to take place as a maund of lapas has to be weighed at a time. When cotton is weighed in many operations there is more chance of the seller, who is an ignorant in in, being defi inded than if it were weighted in one operation. I would suggest therefore that all factories should fix a weigh bridge scale. It is not only that the weighing would be more treatmently but it would be a good or constant. trustworthy but it would be a quicker operation. If there were weigh bridges, 500 earls could be weighted in a single day. We have get a weigh bridge it Nagpin and it three other factories. They were very well indeed and much better than scales. We find our Nagpin igency the better limit in that respect. It works easily and smoothly and turns out better work. A weigh bridge could, of course, be tempored with and some check would be necessary but I do not think that it would be so easy to t imper with them as it is with weights and scales non

4649 Mr Moore -The cultivator usually has a good idea what is inside his eart and how much it words 4650 As to lecensing, I want to do may with a body of inspectors as under the old Bomb by Cotton Frauds Act and would give power to the bureau or central committee to withdraw all because I would not withdraw the license for the first offence but would give a warning to the factory owner in the first instance and would tell him that his license would be endersed but for persistent watering or friendlent mixing I would withdraw the license

4651 Mr Marshall -Poisonally I consider that the central bound should have plenary powers, if it sonly to be an advisory board, its recommendations would have to be sent up to Government and our own experience is that Government takes a long time to reply. If Government is represented on the board, then the latter should have plenary powers. The board should have Government nonunces on it and the Bombay]

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[Continued

other members should be elected by the various bodies whom they represent. I think it would be a very eumbersome thing if the board had no powers I think the board should have power to deal with questions The Government could easily delegate this pewer regarding the issue and withdrawal of licenses

is my personal opinion

1652 Mr Moore—We have proposed in our incinorandum that all licenses should be granted by Government on the recommendation of the central body but I agree that it is describle that the central board should

have powers of withdrawing licenses or of issuing a warning

4653 Mi Boyagis —In regard to offences in gimieries, it is true that I mives are badly set, in ichines are not properly looked after and that crushed seed and inferior Lipas are mixed with lint Merchants some times bube the gin fitters to allow the cotton seed to pass through into the lint There is a marked mere isc in the amount of seed and lap is in gained cotton just now Formerly there used only to be a few cases so is hand gained lunpla and Westerns. The Central Board would be useful in regard to such cases. Formerly there used only to be a few eases such would not go so far as one of our agents at Mapurl has has done in suggesting that regulations should be made in regard to size of the lapus platform, etc. in ginning factories because, I think, that a lot of the mixing is done deliberately and is not a matter of defects in the gins or factories as they stand now. Personally I think it is del berately done and that that is the reason for the adulteration with eleaned ection of cut or I think giming factories when kept in proper order can turn out very elem cotton chonned seed and so on as is shown by the case of our own factories. It is not the case that the ginning machinery wants improve ment but that the adulteration is done walfully I think that if all these regulations which have been suggested were imposed on ginning factories, it would be too hardsing and vections. I understand that in America the farmers have ginning factories of them out. In India ginning factory owners except the big firms have not really any inducement to gin elem cotton. It pays thom better to gin duty cotton because the outturn is greater and they are paid on the outturn. Many of the ginning factory owners I how, especially in the Punjab, are specialties in gened cotton, so that if they buy Lapas and the market goes against thom, they will turn out dust action with a lat of good changed in.

The law or has attend to the refuse the cotton. will turn out dirty cetton with a let of seed slipped in The buyer has either to accept on to refuse the cetton. If the buyer cannot replace it elsewhere, he has to take it I could not buy lapas at khandwa a short time. It is a notorious market The kapas was kept only for the lecal dealers. I could not buy kapas but I could only buy ready guined cotton from the very man who was buying kapas in the market it the same time. He sold to me for delivery in four or five days, and if the market went up he delivered the cetton duty with kapas and orushed seed in it. Of course I had to take it or to reject it. There is no system of allowances there If the market went down, we always got our cotton clean as he lind the fear of rejection before him. The crection of niedel factories on standard plants as is now under the consideration of the Government of the Punjab will not overcome the difficulties. If a nuan wants to mix deliberately, he will do Our contention is that mixing and adulteration are deliberate and that no regulations which the Govern ment will make will exerceme the human element

4654 As regards the suggestion that local Chambers of Commerce should be established in the principal

cotton centres and that the same system of arbitration should be adopted as in Bembay I understand that would mean the establishment of Cotton Associations on similar lines to that in Bombay but this would mean that standards would have to be kept at such centres and arbitrations held there. I think that it would be very difficult to organize and work such bodies up country. I understand however, that this two works arrived out very largely in America. A man buys ready cotton there and knows what he buys. I think that, in the case of class fication, it would not be possible to have such a system. If one sees ready cotton and buys it as "fino" and it turns out to be "fully good", the rate is one seem fault and nobody class. It would be in oxcollent thing to have an allowance for idulterated cotton but one could not have an allowance for classification. The would not be possible to largelyte for class. We usually have at the an allowance for classification. It would not be possible to legislato for class. We usually buy on the basis of irbitration in Bombay. If I buy forward, I buy on the basis of the rules of the Bembay Cotton Trade Association. I think that is much the safer and the best way.

4655 Mr Marshall —We might point out that our forward contracts are subject to survey. In the case of leady cotton, six a let of 500 bales, we open and approve a certain number of bales which are If the buyer finds that the other cotton is inferior to the samples taken from the first bales, his to have it surveyed against the stamped bales. If an allowance is availed, the buyer has the right remedy is to have it surveyed against the stamped bales

of taking the cotton with the allowance or of rejecting it. He may not buy on account
4656 Mr. Boyagis —I think that if the districts knew that all contracts were to be unade on the basis
of the Bombay Cotton Trade Association rules, then it would be all right. I am not in favour of any district

committees for abstration purposes
4657 As regards licensing, I think it would be very unfair to hold the owner of the factory responsible We do not consider that a license should be withdrawn in the case of the first offence

4658 Mr Marshall —If a press owner has clients who are presistently including in malpraetices, he must be held responsible It is difficult to understand how damping can go on a pressing factory without the cog misance of the press owner or his agent. The owner must, therefore be held responsible for damping nisance of the press owner or his agent. The owner must, therefore be 4659 Mr Moore—Wo hold divergent opinion in regard to pools

Mr Marshall is against pools alto

4660 Mr Marshall -I am personally against pools I think they no detrimental to the interests of cultivators but at the same time I realise that in certain districts it is very difficult to exceed them, otherwise there are upt to be underlyind dealings. I think that all pools should come under this central board which has been suggested and that the maximum to be charged should be fixed by it. If this were done, the pools would not do any harm because the rates would not be exceeded. There can be no objection whetever to the maximum being fixed by the central board who will, it is presumed, deal with things furly and squarely 4661 Mr Moore—My view is that a lot of money has been sunk in pressing and ginning factories and

that a certain return is naturally expected on that If these were no pools these gunning and pre. sing factories, as far as I have seen, would make no money at all. In no case has any pool been charging excessive rates If a return could be assured to the guners and press owners without pools, well uid good, but they must be allowed a moderate return. I consider that the pressure charges are reasonable. There is no doubt that the allowed a moderate return. I consider that the pressuig charges are reasonable high price charged for pressing and gimning come out of the price of the lapts I should live no objection whatever to the fixing of a maximum price provided a fair return is given on the capital invested, i.e. if a fur allowance were made for depreciation and for working cost and a return of eight to ten per cent were permitted The central board should be given power to fix the maximum limit

4662 Mr Boyagis -I presume that there would be no objection to rates below the maximum rate being

charged

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[Continued

4663 Mr Moore—I think it would be a very good thing if Government, were to give facilities for moving factories which are not required to places where they could be utilized to better purpose. There is a case in point at Jalgaon this year where two pressing factories are being removed. There are seven presses of which two are being removed. As soon as people begin to find that they earnot make money at a place, they begin to look round for other surtable places so that removal goes on automatically
4664 Mr Marshall—As regards the suggestion that more gunning fretories should not be allowed to be

creeted than are necessary for retual requirements, I should say that licenses should be granted on a distinctly liberal scale because the size of the crop varies materially If five or six factories were enough for an ordinary

serson, I would give licenses for eight

4665 As regards the levy of a tax the proceeds of which would be dovoted to the improvement of cotton cultivation, such a tax could be collected on cotton at the pressing factories or on the cotton transported That would leave out of account the cotton taken by the mills loese and also the hand ginned cotton. As a body we are opposed to an export tax on cotton because we contend that an export tax would full on the producer as the price of cotton is largely controlled by encumstances outside India and not by India s own requirements. My personal feeling is one of strong opposition to an export tax. I consider that if any tax is imposed it should be on the whole erop. If, however, Government finds that it is absolutely impossible to impose the tax on the whole of the erop, I would then say that perhaps an export tax might be appeared to the tax of les ed provided that the whole amount realized by such a tax were allocated for the improvement of cotton production and for that purpose only. Jute is a monopoly of India and so the consumer pages the tax and not the producer. Cotton is not a monopoly of India and the price of cotton is largely affected by the price of American cotton and by Japanese buying It is the price which the outside buyer can afford to pay which largely fixes the price of cotton in this country If he has got to par a two per cent export tax, he will offer We realize the difficulty of levying a tax on the whole crop. We are opposed to an export two per cent less. We realize the difficulty of levying a tax on the whole crop. We are oppose tax as a body. We should be strongly opposed to an export tax for the purpose of revenue would be diminished to a great extent if the proceeds were earmarked for cotton purposes. Our objections

4666 Mr Hodglinson —It is our opinion that the tendency is to pay a higher price for long staple ootton if pure stuff is obtainable. I would always add the provise that this may not be held to be an answer for

normal times

4667 Mr Boyagis -If you ask mo whether this tendency has only been visible since the outbreak of the war, then I come back to the original point and say that the demand for Indian cloth has been greater since

the outbreak of the war

outbreak of the war I should not like to say how things will turn out after the war 4668 Bombay cannot guarantee that Punjab American is puic. If the Bombay mills could obtain an absolute guarantee that only pure Punjub American would be sont, then it would be found that the promium of Punjab American over the mixed stuff would be very insternly increased. I find that the demand from Japan for Punjab American has increased this year. I suppose that is due to the efforts of the Agricultural Department to keep it pure. I personally have never seen Punjab American pure, all that comes down is Department to keep it pure I personally have never seen Punjib American pure, all that comes down is mixed with deshi. Though Punjab American classified as pure is sold at auction sales, yet it apparently has not been seen pure in Bombay and that is the reason why they cannot get the proper prices for it. I do not think that any mill has ever tested it properly
4669 Mr Marshall—This year so far it has not been coming to Bombay at all owing to difficulties in

getting it down I was trying to find a lot of Punjab American but I found that it did not oxist

offered me three bales which consisted of three different types

4670 Mr Boyagis—The mills only go ou their past experience. Nobody will believe any expert what ever, until the cotton has actually passed through the machinery and until he thinks that he can get a sufficient quantity to go on with it If a man wants to go on with a part cular cotton, it is no good for him to get only a hundred bales. There must be a constant supply I know puriticularly large mill owners in Bombay who will not test in their mills any of the Punjab American which is in Bombay. But they are willing to take 50, 80 or 100 bales if it is guaranteed pure by the Punjab Agricultural Department and to pay whatever reasonable price they ask for it. Undoubtedly the mills would take it readily if they could get it pure. There is certainly a future for it

(President) —I think the mills would take it easily as they have done in the case of Cambodia but be of no use to them nuless they are able to follow it up Cambodia commands the highest price it would be of no use to them unless they are ablo to follow it up. Cambodia commands the highest price in the market of any long staple cotton here. Cambodia went off very badly in quality for a year of two. I think that was due to weather conditions. I do not think that there was any real deterioration. Wo have found very little deterioration, it still more than maintains the relative price it used to get. Its relative value has increased as compared with other styles Tho mills have come to believe in it as a crop that can be main

tained over a number of years

4672 Mr Hodgkinson -We tried saw gins in Ish indesh and although we found that the class was rused to a very great extent, as much as two grades, the styple, to the experts' eyes, seemed to be cut

would not have anything to do with it

4673 Mr Marshall—I have bought on null account ioller-ginned and saw-ginned Dharwal ginned cotton is much more ittractive, it comes out much cleaner. There is no doubt whatever about the steple being badly cut. Some people say that this is due to the saws not being properly set. The same

Lapas when gunned in the roller gar gave better results in the mills

4674 Mr Boyagus—Personally I do not think that sufficient trial has been given to saw gins in India

The mills could not be got to take up saw-ginned cotton. That is why we are trying saw gins now with the Punjab American Our experiments with Khandesh cotton were on a very small scale My firm is prepared to go on with experiments in saw ginning In my opinion, it has not been finally settled whether the saw I do not think that enough trials have been made or that gin is detrimental to the staple of cotton those trials have gono far enough

4675 I think that the mutual allowance clause in the Bienich contract has a good effect on the quality

and the grade of the cotton I should like to see it introduced in Bombay arbitration. It exists in Liverpool 4676 Mr Marshall—That would be all very well for a big firm like Messrs Ralli Biothers. If they get something better, they can use it, but in the case of the smaller buyers it would be a great handicap. The smaller buyer wants a particular thing in the gets something much better than he really wants, he does not know how to appropriate it.

4677 Mr Boyagis—I am looking at it from the point of view of the seller. We have not discussed it officially.

officially

4678 Mr Moore -- We will consider the point officially

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Javerpeol in the same way as there are in Bremen

4680 Mr Marshall—I am entirely in favour of this. I have advocated it several times

4681 Mr Boyagis—The effect of the home guarantee contract on the quality of Indian cotton has been

1 that had a distinct tendency to bring

4682 Mr Marshall—In regard to the possibilities of having official types made here by the Cotton Trade Association for Punjab American, I think if we had a sample set and by which staple and class could be decided, we could made up a stendard type — Cambodia is sold on type, we have no classification for Cambodia. decided, we could make up a standard type. Cambodia is soid on type, we have no crassification for Cambodia at all. I do not think that is a point which stands in the way of the cotton, if the cotton is once known. Cam hodia is a very apt illustration of that. I know the difficulties in regard to Punjab American as it has to be grown a de by side with a short staple crop. We should be quite prepared to give you a type if you wished it. I cannot say whether it would have a good effect. We know that as regards the Punjab deshi cotton, there are at least two or three distinct classes as one goes from the Eastern Punjab to Sind. In the Bombay cotton trade, there is only one class for them all and that is "Sind Punjab." As to whether it would not be possible. trade there is only one class to them in and that is "Sind Punjab". As to whether it would not be possible to have an alteration of names to indicate more exactly what the classes are, I am afraid our answer must be "no". We have already sub divided to a great extent and the Directors have come to the conclusion that it is difficult to sub-divide any more. It would be difficult to decide how to sub-divide "Sind Punjab". Punjab American is now separate. Punjab American is now separate classification for Punjab American. That has not been done yet, but we have discussed it.

4683 No comparison is really correct as between Broach and Westerns or Lumpia

Broach as a speculative contract is very much ligher than its intrinsic ments warrant 4684 M. Boyagis —That goes against the improvement of the Broach crop as short staple cotton can be mixed with it Personally I do not regard Broach as a staple cotton on the whole I am not expressing the view of the Directors I do not class it among the staple cottons It takes a lot of size and owing to that

it seems to me it becomes valuable because it turns out more weight of cloth

4685 Mr Marshall —The majority of the Directors regard Broach as a staple cotton but are gradually
cersing to do so owing to deterioration. Four years ago we should certainly have rejected lots which to day consing to do so owing to deterioration. Four years ago we should certainly have rejected lots which to day we are passing. It is a much simpler business to retain existing good qualities than to establish them again once they have been extinguished. That is our whole point right through. If you allow a staple crop to ship away, you will probably never be able to recover it. Every effort should therefore be made to preserve it. No further eneroschiment of short staple cotton on long staple should be allowed. Saw ginned Dharwar American has deteriorated a great deal because there has not been any supply of fresh seed so far as we under

4686 We have already explained that our written note expressed the view in which all the Directors were in total agreement but that there are some of us who would go further than that and would include damping in paragraph 4615. As a metter of fact, damping is a thing which the trade itself, if it gets the power, can control together with other fraudulent practice. The trade, if it is given plearly powers, can control such things itself. It cannot increase the supply of long staple cotton nor can it stop the substitution of short staple. for long staple but if it gets powers of control, it can stop damping and fraudulent mixing. Our idea is that it is better that that should be done by the trade than by Government because Government control would be irrigating and voxitious. The trade will telerate restrictions that are imposed by itself to a much greater extent than those imposed by Government.

4687 Mr Boyagis—We are against Government control. That is why we were opposed to a standard that the standard is a standard to the standard of the standard is a standard of the standard is a standard of the standard is a standard of the st

form of ginnery because it would lead to irritating and vexatious interference by minor officials

4688 (Mr Wadia) Mr Marshall—No night work should be allowed in ginneries or presses when any
other factories in the pool are closed. That would only apply to factories in the pool

4689 Mr Boyagis—There is usually a clause in the pool agreement that a factory remaining silent has to be in such a condition that it can be called upon to work within 24 hours, but it is very seldom acted on I know of cases in which factors have refused to gui for anybody else or have compelled buyers to buy ginned These cases should be dealt with by the Board of Control

4690 tPresident) As to classification by railway stations, I think that that is a thing which will gradually right itself. It is very difficult to recommend anything. We have been endeavouring to broaden contracts. There are now six stations included in the Khamgaon Al ola contract.

THE BOMBAY CHAMBER OF COMMERCE

EXAMINED AT BOMBAY, JANUARY 29TH, 1918

Written statement

4691 Preamble -- My Committee observe from the instructions which accompany the questions that they nced not attempt to answer all the questions nor need they confine themselves to direct answers to the questions put. Most of the members of this Chamber who are interested in the cotton trade are also members of the Bumbay Cotton Trade Association or the Bombay Millowners' Association, both of which bodies will, no doubt, be giving evidence before your Committee It is felt therefore that the most useful form to take for my Committee's evidence will be a general report on certain aspects of the Committee's enquiry, with specific remarks on a few particular questions

4692 Division of subject —My Committee understand that the objects of the Cotton Committee's onquiry

fall roughly under two main heads -(a) what measures can be devised to increase the growth of long staple cotton in India , (b) what measures can be devised to provent the mixing of short and long staple cotton and the watering of eotton

(a) Measures to increase the growth of long staple cotton

4693 Necessity for increase in cultivation of long staple cotton in India -In dealing with the first of these two heads, my Committee understand that the intention is not necessarily to supplant the cultivation of short stapled cotton in India by long stapled cotton but (a) to increase the total cultivation, the increase to be in THE BOMBAY CHAMBER OF COUVERCE

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long stapled cotton and (b) to prevent the deterioration of long stapled cotton or its displacement by short stapled cotton in those districts which have shown themselves to be suitable for the growth of the longer stapled varieties. My Committee wish to emphasise the fact that it is absolutely necessary in the interests of the country as a whole that adequate steps should be taken to insuic the cultivation of a sufficient quantity of long stapled cotton. There is no reason why this should ever conflict with the interests of the cultivator, whereas if the cotton that is really wanted is not grown in sufficient quantity the cultivator will suffer in his turn.

(2) From the point of view of India, it is essential that the Indian mills should be able to secure an adequate amount of long stapled cotton so as to be independent of America. The gradual improvement in the quality of local manufactures which may be expected to be stimulated by war conditions renders it probable that there will be a steadily incressing demand for long stapled cotton for consumption in this country. From the point of view of the British Empire, it is highly important to stimulate the growing of long stapled cotton within the Empire. In this connection, it may be noticed that the Royal Commission reporting recently on the resources of some of the Dominious consider that every effort should be made in this direction, even recommending that cotton of the American variety should be cultivated in Australia so as to render Liverpool less dependent on supplies of cotton grown outside the Empire

4694 Conservation and improvement of indigenous long stapled cottons—The first thing to be done is to conserve and improve the indigenous long staple cottons in this country. The introduction of exotics must of necessity be largely experimental and care should be taken that their introduction should not be at the expense of indigenous long stapled cotton in aleas where the latter have been proved to thrive. India has a good market for short stapled cotton both in this country and in Japan and the Continent of Europe. What ever efforts are made towards the cultivation of long stapled cotton, we think ample supplies of short stapled cotton are certain to be cultivated, but without special care being taken the supplies of good stapled cotton are

likely to be always in defect 4695 Problems connected with cultivation of long stapled cotton -It would be both futile and wrong in prin ciple for Government to use their influence to try and force the cultivator to grow long staple cotton in place of short staple cotton, unless the former was going to pay him better than the latter. My Committee would however, make this qualification. It will very probably be the ease that long staple cotton grown in a district from which such cotton has not previously come will not immediately realise its true market value. In such circumstances, it would, it is felt, be necessary and permissible for Government to employ some artificial stimulus to the growth of long staple cotton, if they were convinced that its growth was in the ultimate interests of the collivator. It appears to my Committee then, that the first problem to be solved as to find a long stapled cotton plant, which will vie with the shorter stapled varieties in its combination of the following qualities, namely, hardiness, rapidity of germination, yield per acre, giming percentage and market value. This problem is one for the agricultural expert and my Committee do not propose to offer any remarks on it beyond saying that, until it is solved, no lasting extension of the growth of long stapled cotton can, in their opinion, be looked for In this connexion, it might be mentioned that, as far as my Committee's experience goes, the only exotic cottons which can be said to be a proved success in this country (by which my Committee mean that they have shown then ability to oust the shorter stapled cotton on their own economic merits without Govornment assistance) are Cambodia and perliaps Punjab American problem has been solved, the next problem is to ensure that the cultivator receives the full benefit of the increased market value of his produce. That he does not always do so at present is, my Committee think, a generally admitted fact, for which various causes are responsible. One of the principal causes is the Committee believe that this system is not so widespread in India as it was twenty of their growing crops. My committee believe that this system is not so widespread in India as it was twenty years ago, the general economic conditions of the cultivator is no doubt slowly improving and he is gradually becoming less dependent on the money lender and the high prices which have been realised for cotton during the last few years should do something to accelerate his independence. At the same time, the practice is still prevalent in many districts and the result of it is that the cultivator frequently does not receive the full market raluc of his produce. The remedy appears to my Committee to be the extension of cooperative cred t societies or the establishment of agricultural banks. The former seems to be the method most suited to the present conditions of India

4696 Methods of buying cotton —Another cause which in some cases militates against the receipt by the cultivator of the full value for his cotton is the method of buying adopted by many uses in this country. My Committee consider that buyers as a class are far too much influenced by the name of the station or district from which the cotton comes to the exclusion, in many cases, of the intims ciments of particular lots. Cotton in India is usually sold to the consumer by the name of its station or district of origin. Particular stations and districts get good or bad names on the market or are I nown as producing a particular olass of cotton Consequently, if a district which produces principally or a short stapled cotton produces also a limited quantity of botter cotton, it is almost impossible to sell this limited quantity in India at its intrinsic value. This fact is within the experience of all large merchants, who eater for both the export trade and the local mills. The export trade is conducted principally on the type basis. That is to say, the exporting merchants supply ranges of types to their selling agents in different countries, those types though they may sometimes be grouped into large territorial groups such as Bengals, *Domras*, ctc are really known to the buyers by numbers or names. The buyers know nothing and care less about the particular type and all they vant is cotton equal to that type. An exporter can slap cotton from any district against that type so long as the cotton shapped corresponds to the type. In India, on the other hand, the mill owner or his cotton selector nearly always misses on knowing exactly where any cotton offered to him comes from and allows the name of the district to influence him very largely in his estimate of the value of the cotton. He is not as a rule willing to judge and by cotton solely on its merits, but allows himself to be greatly influenced by his preconceived ideas about the usual cotton obtainable from the particular station or district. The retained, but, su

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change would, however, entail such a complete reversal of all the methods butherto adopted by the cetter trade in India and would present such very great practical difficulties that my Committee de not regard it

as feasible at the present time or for some time to come

4697 Methods of picking cotton - Before leaving this part of the Cotton Committee's enquiry, my Com mittee would mention that their experience is that the method of picking of Iapas in India leaves much to be desired. Unripe bolls are picked indiscriminately with the ripe bolls owing to the desire of the cultivator to get the whole of one field picked while he can secure the labour. If it could be arranged for Mamlatdars to organise the labour in the villages and pick each man's fields in turn, picking only the ripe bolls and returning at a later date for the remainder it is believed that a great improvement in the cleanliness and staple of the coulton would be affected and that the cultivator would be remainded by the ripe. of the cotton would be effected and that the cultivator would be more than compensated by the price obtained for his cotton for any increase in the cost of picking. In this connection, my Committee have obtained for his cotton for any increase in the cost of picking. In this connection, heard of an interesting experiment which was recently made in the *kumpla* districts A prominent land owner was induced by a mill to make the experiment of picking a few of his fields systematically and the five bales of cetton thus picked were sent to the mill for testing. The result was that these five bales lost only five per cent in the blow room against a normal loss of twolve to fourteen per cent for cetton from the same district picked in the ordinary manner

(b) Measures to precent the mixing and natering of cotton

4698 Restrictions on transport of kapas and unguined cotton by rail—I am now to refer to the question of the prevention of the mixing and watering of cotton and my Committee propose to refer to the various sugges tions which have been brought to their notice. The first suggestion is that the transport of kapas and unginned cotton by rail should be prohibited except from the district of growth to a port or from the district of growth Such a prolubition would do much to prevent the taking of lapas and cotton from to a bona fide consumer a short stapled district to a long stapled district, e y, from Khandesh to Breach, for the purpose of mixing and my Committee see no reason why it should injure any legitimate interests Incidentally, it would also protect the long stapled district to some extent from the danger of deterioration in its own cotton through the mixing of seed. In order to render this protection complete, it should be pointed out that it would be necessary for Government to exercise some control over the sale of seed for growing purposes, as it is known that in many cases cotton seed has been imported from one district to another for purposes of sowing necessary to grant hecases not only to bona fide consumers but in some cases to respectable merchants who showed good cause for taking unpressed cetten from one station to another, for merchants, whose cotten was intended for export, might have good reason for taking cetton for pressing from one station to another neighbouring station where they had or could secure a more efficient press. In such cases, it would probably boads isable to grant not a general license but a license confined to the particular stations in question Committee understand that instances have occurred of inferior cetton and even cotton wasto being deliberately railed in full pressed bales from Bombay to certain districts for the purpose of mixing and it is therefore worth considering whether the prohibition should not be extended to cover cotton in full pressed bales as well. While the prohibition of transport by rul would check many of the worst cases of mixing it would not present the mixing of cotton from neighbouring markets, where the cotton of one market is superior to that of its neighbour, eg. Khaing ion and Malkapur, for in such cases the lapas or cotton can be transported by road

4699 Restrictions on transport of cotton by road -I he second suggestion therefore, which has been made is that restrictions might be placed on transport by read. This is a much more difficult problem for two reasons, first's because there is much legitimate transport by road which must not be harassed or interfered with, secondly because any restrictions made would be difficult to enjoyee The only way in which my Committee think it might be done would be by legislation empowering Government to apply restrictions to particular areas or between particular stations. When transport of cotton or lapse was restrictions to puriticular areas or between particular stations. When transport of cotton or kapas was taking place from a particular station or district to another station with the obvious intention of mixing the inferior cotton of the one will the superior cotton of the other, Government might, on having their attention called to it by their local officers, notify by executive order that the provisions of the restricting clause or clauses were in force in respect of the transport of kapas or cotton from a particular area to another particular area both of which would have to be clearly defined. My Committee do not see why such legislation should not be enacted but it would have to be reserved for occasional use and only in cases where the traffic was

considerable and its fraudulent intent unmistakable

4700 Licensing of ginning and pressing factories -Tho third suggestion which has been made is that all ginning and pressing factories should be I consed and that each should be given a distinct mark, which it should be required to stamp on every prekage of loose cotton in the case of a ginnery and on overy bale in the case of a press, which left its premises. With this suggestion my Committee entirely agree and they the case of a press, which left its premises think this system would be very useful in tracing where the iniving or watering of cofton has taken place. But there are a number of important points which arise in connection with this question of heensing —

- (a) What agency should control the issue of heenses? My Committee are of opinion that the issue of licenses must be official, that is to say, the licenses should emanate from Government and not from any entirely unofficial body Probably the best arrangement for control would be to have a committee in each district, presided over by the Collector and consisting partly of Government nominees, officials (e.g., of the Agricultural Department) and non officials, and partly of elected members Such committees might be very similar to the Smoke Nuisances Commission in Bombay and would control the issue of and the suspension or removal of licenses
- (b) What agency should be employed to carry out inspection? My Committee understand that one of the principal objections to the old Cotton Frauds Act was the large number of Inspectors on lew pry employed under it, and the consequent bribery which tool place. They see no necessity for a large staff of Inspectors nor indeed do they think it would be necessary to harass well They see no necessity Factories should only be inspected when a complaint conducted factories with inspections has been made against them and then the inspection would be more of the nature of an investi gation and should be carried out by a Deputy Director of Agriculture or an officer of similar standing. It might be advisable for the same officers to pay occasional subsequent visits of inspection to factories which have been complained of and found to be at fault or lax. But my Committee believe that the system of heenses would by its existence do much to check the ovil and that no large inspecting staff would be found necessary

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- (c) What degree of reponsibility is to attract to beensed factories? In the opinion of my Comunitee, great eare will have to be taken not to ask impossibilities of factories. In many of the cotton districts, the majority of factory owners are not themselves cotton merchants, many factories are owned by firms or joint stock companies whose head quarters are in Bombay or elsewhere and these factories are frequently in charge of an engineer or other non expert in cotton on a very moderate salary. Such men have neither the time, the opportunity nor the knowledge to say whether mixed lapas is being ginned or mixed cotton pressed in their factories. It would therefore be extremely oppressive to hold factories responsible for mixing or watering nuless it was proved that the factory owner or manager was responsible for or connived at the occurrence. The object of the liconsing system would be to trace the mixed or watered cotton first to the factory and thence to the owner, who brought it for ginning or pressing. It might be possible to institute a system of black lists of owners, who have been found guilty, factories being forbidden to gin lapas or press cotton for those owners during the next ensuing season.
- (d) Should the licensing system be used in any way to prevent combination of pressing or ginning factories for joint working, usually known as pools? My Committee are omphatically of opinion that it should not Licenses should be granted freely to all existing factories and should only be removed or their renewal refused for the reasons mentioned above
- 4701 The pool system The heense system is intended primarily for the suppression of mixing or watering and should have nothing whatever to do with the rates charged by factories to their customers. As a matter of fact, my Committee consider that the effect of the "pool" system on the cotton trade has been much misrepresented and its exils exaggerated. It is argued that, because at certain stations there are more factories than are required and a pool is formed under which some work and others remain silent and the silent ones share in the profits of those working therefore, a plethora of factories is a crushing burden on the cultivator. It seems to be over looked by the supporters of this view that such stations are few in number and that in many more the cases of factories results in out throat competition and in ginning and pressing work being done at cost price or often at a dead loss to the factory. The cultivator gains a great deal more than he loses by the excess of factories which exists in many stations. Moreover, there is, as far as my Committee's experience goes, no justification for the theory that unduly large profits are made by capital invested in ginning and pressing factories.
- 4702 Necessity for the co operation of buyers—Before leaving the question of the mixing of cotton my Committee desire to refer to one other point and that is to the necessity of the co-operation of buyers. It is, of course, true that i small admixture of shorter stapled cotton, say up to ten per cent, is almost impossible to detect except in the process of manufacture. But larger admixture can and should be detected by the buyer and if buyers as a class declined to purchase obviously mixed cotton, no measures such as have been discussed above would be required to stop the practice, which would die a natural death, moreover, so long as buyers continue to purchase mixed cotton at prices which leave a large profit on the process of mixing strenuous efforts will be made to evide whatever restrictive measures are imposed

(e) Answers to Cotton Committee's questions.

- 4703 (33) Improvement of cotten forecast—My Committee consider that the cotton acreage fore east, as at present published, is sufficiently accurate, but that there is considerable room for improvement in the accuracy of the cotton outturn forecast. It is believed that improvement might be effected by relying more on enquiries from cultivators cotton merchants, local agents of large buyers and other similar sources and less on the reports of the subordinate revenue officers of Government, who have a great deal of other work to do
- 4704 (34) Improvement of other statistical information —The proposed system of licenses for ginning and piessing factories should do much to increase the accuracy of the cotton press returns. The work in connection with collection of these returns from certain Native States is undertaken by this Chamber, but should, in my Committee's opinion, be taken over by Government, and there would be no hardship in insisting upon the proper supply of information by presses as a condition of license. If, in the future it should prove possible to secure the extension of the license system into Native States, the problem of the cotton press returns would be solved.
- 1705 (35) Publication of Liverpool and Bombay prices—My Committee are not in favour of the publication of either Liverpool or Bombay cotton prices at up country markets. As a mitter of fact these prices are very well known in most markets, but their official publication would given them an importance in the eyes of cultivators which would often prove very misleading to them and would lead to constant dispute without any compensating advantage that my Committee are aware of Prices fluctuate so rapidly in the Liverpool and Bombay markets and their fluctuations are governed by so many complex influences that they are a very unreliable guide to up country prices
- 4706 (38) Saw-gins tersus roller gins—The saw gin is principally used in India for ginning the product of "Dharwar American" seed in the Dharwar district. My Committee are very doubtful whether its use for this kapas is necessary or beneficial. They have been informed that this lapas can quite well be ginned by roller gins and that such gins do not give any less percentage of lint. The process of ginning Dharwar American kapas by roller gins is considerably slower and therefore more expensive than ginning by saw gins, but, on the other hand, my Committee understand that a substantial improvement in staple is gained. Their information is that, if the Dharwar American kapas were all ginned by roller gins, this cotton, which has lost a great deal of its reputation in recent years, would probably rise considerably in the estimation of buyers.
- 4707 Liy of tax on cotton to meet expenditure involved in recommendations—In conclusion, I am to mention that some of these recommendations will involve a considerably increased expenditure by the Agricultural Department and it might be asked where the additional funds are to come from My Committee are of opinion that in view of the fact that this increased expenditure by the Agricultural Department would be for the direct benefit of the cotton cultivator there would be nothing wrong in principle if a small tax on cotton were imposed but they wish to point out that any such tax should be levied on the whole trade and not merely on a particular portion thereof

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THE HON'BLE Mr M. HOGG, (Chairman), Mr J Muller, Mr H F Herson, and Mr R E Gregor Pearse (Secretary), Representatives of the Bombay Chamber of Commerce, called and examined

4708 (Mr Wadia) Mr Hogg—There is undoubtedly a shortage of long stuple cotton. It would be quite fair to say that there is a scramble for it. The mills and large merchants usually send their men up The Chamber considers that any steps to mercase the outturn of long staplo country to buy their cotton cotton that may be recommended as a result of the deliberations of the Cotton Committee will be as much to

the advantage to the Indian mill owners as of those in Lancashire or other countries

4709 I should say that there are a good many reasons why long staple cotton has not been able to get the proper premium over the desh varieties. In certain districts, as we have pointed out in our written evidence, long staple cotton does not apparently get its proper premium hecuse the district has a reputation for either medium or short staple cotton. It is the hypnotism of the name of the district that prevents the cotton being sold on its ments. In long staple districts, long staple does get a fair premium provided the quality is good. Take for instance Cambodia. That gets its intrinsic value in the market. I have not heard any complaints to the contrary. On the other hand, take Broach, the value of that has gone down in recent years in comparison with other staple cotton because the quality has been deteriorating owing to the manying. As to the statement of the Director of Agriculture in the Central Provinces that one the boung of recent years in comparison with other staple cotton because the quality has been deteriorating owing to the mixing. As to the statement of the Director of Agriculture in the Central Provinces that, on the basis of outturn and ginning percentage, burs would have to fetch above thirteen annas are pies and bans twelve annas a pound against eight annas for roseum in order to make it worth the cultivators' while to grow them that is a very big difference. It would mean that, if the price of roseum were Rs 500 per Lhands, the price of bans would have to be about Rs 750 and that of burs about Rs 850. It is certainly the case that the difference is not quite as large as that at present. I do not think that it will be possible to get such differences. I do not think the intrinsic value of bans and burs to the manufacturer would enable him to pay as much as that for them. The fact that long staple cotton is not marketed pure, may certainly have something to do with a proper premium not, being paid to the cultivator, but on the basis of the figures just mentioned. bans and burs, even if marketed pure, would not command such light prices as Rs 750 or just mentioned, bane and bure, even if marketed pure, would not command such high prices as Rs 750 or Rs 850 If those figures are correct, I should say that we come back to the fact that those particular varieties of long staple cotton are not a paying proposition. You have got to find a long staple cotton which will compete with the short staple variety and its combination of qualities, ginning percentage, outturn, etc. I certainly think that it is a fact that the value of long staple cotton is affected unfavourably by its not being marketed in a pure condition
4710 Mr Muller—The question is, of course, whether the trade can pay those prices for long staple

cotton and I doubt whether it can Personally I think the ryot is not in a position to command a proper price for his cotton because he is not independent. If he was an independent seller and not dependent on the money lender, than he could sell his cotton when he liked. If he did not get his price, he could take it back and store it somewhere. The ryot does not dictate the price, it is the buyer who dictates the price. As soon as the ryot is really independent, he can command the price his cotton is really worth. My idea is that the difficulty should be overcome by the establishment of more co operative societies That is the crux of the whole thing Make the ryot independent then he can sell his cotton to whom he likes and store it if he cannot

get a sufficiently high price for it

4711 Mr Hogg —As we have stated in our written evidence, it seems probable that as eo operative credit societies have already made a fair amount of progress in the country, their extension would be a more rapid solution of the difficulty than the establishment of agricultural banks which is almost a new proposition

4712 Mr Muller —I have not seen the working of co operative seed unions and co operative marketing But I think that the open market system is the better one —I know that in Nagpur there is a kind of auction arrangement—All the buyers collect in the market and offer their rates and the highest rate offered is the rate of the day I do not think that is a very good system. Although we might be offering the highest price, and there are 400 bales, we cannot be sure of getting all of them, we might only get fifty bales and some other man might walk away with 150 bales simply because he happens to be friend of the brokers. The system in Khamgaon is a much better one. If you outbid everybody else, you can take as much as you want

4713 Mr Hogg—There is a somewhat similar system to that which Mr Muller has described prevailing in the Hubli market. You can say that you will buy a certain lot of cotton but you cannot fix the rate for it until the market opens. The rate at which you are to buy is not fixed till the afternoon.

for it until the market opens The rate at which you are to buy is not fixed till the afternoon 4714 Mr Muller—The Nagpur system does not tend to the highest price being offered 4715 Mr Hogg—I do not know much about the Punjab districts But I understand But I understand that conditions there are different from those anywhere else. The factories there belong to cotton merchants. I do not think that is the case to any great extent in other parts of India. As far as I know, there are a certain number of cotton merchants who have ginning factories but the majority of the ginning factories do not belong to them

4716 Mr Muller -- It would certainly be better for the ryots if there were open markets In the Punjab, All the cotton is brought by the factory the merchants never get into direct communication with the ryots owners

4717 Mr Hogg -My personal opinion is that there is no reason why fraudulent damping should not be prohibited entirely

4718 Mr Muller—I quite agree A little damping is sometimes a good thing, especially for the press machinery but I do not know where the line should be drawn At certain times, if you want to press a 400 lbs hale, the machinery would be smashed if the cotton were not damped That is an absolute fact But it is

so very difficult to draw the line that I think it is necessary to prohibit watering altogether
4719 All railways should be prohibited from currying any cotton except in full pressed bales out of the
cotton tracts If licenses were given for currying cotton from one station to another except in full pressed hales, the reasons for granting them should be stated That would be run by the central board or central

committee which would be instituted

4720 Mr Hogg—As to the idea of controlling ginneries and pressing factories by licenses, I do not see any particular reason why movement of cotton by rail should not be controlled by the same authority. As regards transport by road, the only solution of the difficulty that we can see would be to have legislation with a permissive clause enalthing Government to apply the restrictions on transport by rail to transport by road between any two particular districts. Such a clause would have to be very sparingly used and only when between any two particular districts Such a clause would have to be very aparticular districts Such a clause would have going on was obviously for more or less the local authorities considered that the transport by road which was going on was obviously for more or less than local authorities considered that the transport by road which was going on was obviously for more or less than local authorities considered that the transport by road which was going on was obviously for more or less than local authorities considered that the transport by road which was going on was obviously for more or less than local authorities considered that the transport by road which was going on was obviously for more or less than local authorities considered that the transport by road which was going on was obviously for more or less than local authorities considered that the transport by road which was going on was obviously for more or less than local authorities considered that the transport by road which was going on was obviously for more or less than local authorities are the local authorities.

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that the cotton grown round Malkapur is somowhat inferior to the cotton grown round Khamgaon is also no doubt that Mall apur cotton goes to the Khamgaon market for sale there as Khamgaon cotton. I do not see why it should be impossible to prohibit that I admit it is a very difficult question but I do not

see any other possible way of improving matters except in the way we have suggested

4721 Mr Muller—Prohibition by rail would practically stop three quarters of the illegitimate traffic

But I should say that such a prohibition would increase the traffic by road tremendously. Carts frequently travel fifteen miles a day for three days and go up to fifty or sixty miles. I know that kapus is taken by cart from Khandesh both to the Malkapur and Khangron markets. That is a distance of nearly 200 miles. Kapas

comes into the Hubli market from the Western districts

4722 Mr Hogg—Cotton comes right across from Raichur to Hubli by cart That is a surprisingly long distance. It would be rather a complicated thing to have boundary zones but something of that sort

would be required

4723 In regard to the heensing of ginning and pressing factories by a central board, I think from what I has a leard, that opinions are rather diverso. My own personal objection to a central body would be largely removed if it worked through sub-committees. My own feeling about a central controlling body is if it is going to control the licensing of ginning and pressing factories all over the country, its work would be so heavy that nebody notively engaged in business would be willing to serve upon it. A central body would heavy that nobody actively ougaged in business would be willing to serve upon it. A central body would not have the requisite knowledge. Unless there were local sub-committees, there is a danger that the central body would have to get complyints investigated or inspections carried out by the very type of men who, I under stand, made the Cotton Francis' Act a failure. Inspectors on low pay mean opportunities for corruption. If the central body were to appoint sub-committees that would go a long way to meet my personal yours on the subject. I am not opposed to the idea of a central body but if it tries to do overything itself, it will break down

4724 Mr Muller —That is exactly my opinion I think that a central body is desirable to secure uniformity of procedure but that there must be local sub-committees as well

4725 Mr Hearson - A combination of the two would be preferable

4726 Mr Hogg—I would only penal so a gimning or pressing factors. If the ginning and pressing factors were proved to have deliberately commed at fraudulent mixing I certainly would not throw the responsibility on the ginning and pressing factors of being made the agent to detect fraudulent mixing. I do not think it would be possible to carry that out. The onus of proof should be on the prosecution to prove that the ginning and pressing factory had been deliberately guilty of mixing. Otherwise the man who brings in mixed cotton, i.e., the merchant, should be dropped on , in cases in which, as in the Punjab, ginners and press owners are merchants themselves, there would be no difficulty, for in that case the merchant would be If the merchant and the presser are the same, there is no difficulty As to the publication of black lists, where the press and gin owners are not cotton merchants and have not deliberately connived at fraudulent mixing you should not drop on the factories at all. The merchant should be dropped on and the only way we can suggest would be to publish a blocklist of increhants who brought mixed kapes or mixed cotton and forbid any factory in that station accepting kapas for ginning or cotton for pressing from that particular merchant for the following year or for a certain period. It might be got round by the man trading under another name but it would have a very healthy effect. Most laws can be evaded to a certain extent. I do not see any objection to a condition of the heense being that only standard weights should be used in the ginning factories. I know at present that there are many cases where false weights are deliberately used I would certainly insist on standard weights and also that weights should be inspected.

4727 In the present state of the pressurg and giming industry owing to the number of factories, if there were no pools, factories would be bound to work practically at a loss. I think in the particular station where the pool is, the extra profit would probably come out of the pookets of the oultivators. Unless the pools were conducted on a roasonable basis with a reasonable margin of profit, they would in particular cases be dotrimental to the cultivator But my point is that while present conditions in some cases produce a pool, in others the same conditions produce cut throat competition so that the matter is as broad as it is long you remove the conditions which produce pools you also remove the conditions which, in other cases, enable the cultivators to got their cotton ginned and pressed at a price below cost. Theoretically, the high prices which the Committee have found are boing charged for ginning and pressing in some cases are not right but, in practice, if you got a place whore high rates are prevailing what happens? All that happens is that the next year new factories are started. If you got a station where large profits are made, other factories are immediately put up and generally after the erection of the new factory, there is no pool for two or three seasons,

while the factories are fighting things out amongst themselves

4728 Mr Muller—Our experience is that what may be called the retaining rate i.e., the rate retained by the members of the pool is generally fixed at cost. The difference between the retaining rate and the pool rate represents the contribution to the pool. The retaining rate is generally fixed at cost for the simple reason that if it is not fixed it cost, you at once got people paying robates. These pools are generally for two or three seasons with the option of termination at six months' notice. The ambition of some of the smaller people who have a share in the pool is, if possible, to increase their turnover and to claim a higher share in the As soon as the retaining rate is fixed above the actual cost, they can give a robate to get consti tuents The total pool rate is usually fixed as low as possible Suppose we are working in a place where there are three presses. We are doing the largest share of the business. The other two are just managing to earry on but they want to have the rates increased from Rs. 6 to Rs. 6 8. We naturally object. My experionce is that the pool rates are not excessive as a rule, for the simple reason that the larger workers always try to keep them down, they never get a share of the pool based on their actual work. In Guntur, we used to In Guntur, wo used to pay in fifty per cent of the total pool takings but we only got twenty two per cent out of the pool So that we lost 28 per cent of our contributions. In regard to the high pressing charges at Multan, it must be remembered that we are now dealing with war times. The cost of hoops and gunnies have gone up to about four bered that we are now dealing with war times. The cost of hoops and gunnics have gone up to about four times their value before the war. Where pressing cost about one rupce, it now costs nearly four rupces. The increase in the cost of ginning is not so high. Ginning Companies usually pay about six, seven or eight per some companies pay more but if you scrutinised their accounts, you would find that it is trading which

brings in the money and not ordinary giming and pressing

4729 Mr Hogg—I should say that, as a general rule, the only way I know of making money in the ginning and pressing industry is for a company to have a number of factories. What it may lose in one place, it may make up in enother A good many small companies have gone into liquidation within the last few years
4730 Mr Muller—As to the suggestion that the pool charges for ginning and pressing should be fixed

at a reasonable rate so as to allow for cost of gunning and pressing plus depreciation plus a margin of profit

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say ten per cent, has any body thought about fixing a minimum? If a maximum only were fixed, there would

no longer be a pool, and the cut throat composition would begin

4731 Mr Hogg —I do not think that a maximum charge would work at all It would merely lead to the same conditions of cut throat competition. It seems to me that if a maximum charge were fixed in a place where there are pools, then there would be the same conditions of cut-throat competition as there are in places where there are no pools. You would not have any opportunity of recouping yourself in one place for losses where there are no pools

in other places
4732 Mr Muller—I think the maximum rates would have to be considerably higher than the pool re at present It is absolutely unnecessary to stop pools because, generally speaking, the rates are not Isolated instances of high charges have been quoted but one cannot get away from the fact that the rates are at present

expital invested in ginning and pressing factories does not pay a high rate of interest

4733 Mr Hogg -I do not think that there is any necessity to make it a condition of a licenso that the factory should worl at least for a couple of months during the season I consider that licensing should be introduced for one purpose and one purpose only and that is to prevent the adulteration and watering of I do not think that I censing should be used for any other purpose except that it might also be used for ensuring the submission of correct statistical returns
4734 Mr Muller—Multan is a notorious place and is absolutely the worst place that I know but it is an

isolated instance

4735 Mr Hogg—You cannot have prevention of new factories unless the industry is regulated by State control. If State regulation is applied to ginning and pressing factories why not regulate other kinds of factories as well? As to the suggestion that factories should only be put up in places where the State considers them necessary and beneficial, I object altogether to putting restrictions on the investment of capital in that way. It is not proposed that spinning and weaving mills should be forbidden to be erected. Why should there be any interference with any other industry? I think that the thing is wrong in principle although I quite admit that there are advantages to be gained by it and it would suit me personally

4736 Mr Muller - I quite agree I would also welcome it from the personal point of view suit movery well but I think it is absolutely wrong in principle to lay down that no licenses should be given for the erection of more ginning factories than are actually required to deal with a bumper crop I would waive

the personal aspect which is comparatively small, but I do not think it is right in principle

4737 Mr Hogg—I think it would be reasonable enough to refuse permission for night work if there

are other factories in the place which are not working

4738 (Mr Hodgkinson) In India, the export trade is conducted principally on the basis of types and the cotton shipped has to correspond to the type sold As far as the export trade is concerned, cotton is sold on type but here in India it is sold to a great extent by the name of the station Buyers won't buy merely on sample, they want to know the name of the place or station the cotton comes from Most of the merchants would be delighted to sell to local mills on type in the same way as they sell cotton to Lancashire and to the mills on the Continent As a general rule, the local mill owner does not eare to buy on type, he wants to know exactly where the cotton comes from There is a tendency to take the cotton from one district to another, te, to take short staple cotton to a station which has a reputation for long staple cotton That arises directly out of the habit of buying on station names and of attaching great importance to a cotton coming from a particular place. That naturally gives an opening to morehants to bring cotton from other places to a particular market. The problem is an extremely difficult one. Of course, the theoretical remedy would be particular market The problem is an extremely difficult one Of course, the theoretical remedy would be to alter the whole basis of marketing in the Bombay market and to sell cotton entirely on the basis of class, length of staple and character of staple. That presents very great practical difficulties. I do not see how it would be possible unless we had a staff of expert surveyors, doing practically nothing else. Whether that is feasible, is rather doubtful

4739 Mr Muller —It is desirable to have it if it could be done but I am doubtful if it could be done at

present

4740 Mr Hogg-I should like to see the system under which American cotton is marketed in America introduced here if it is practicable, but it would mean a radical change in the whole system Matters are much more complicated in the case of Indian cotton The differences between the various grades of Indian cotton are much greater and more marked than they are between the various grades of American cotton think that the difficulties should be insuperable really. So long as the sample is suitable and cotton is sent up to that sample, as far as the export tride is concerned or as far as the buyers in Lineashire are concerned, As a general rule, one does not sell the system of selling on type works very well but there are exceptions. As a general rule, one does not sell "Fme Bengals" but simply type No 7 for the Continent. The general rule is that one sells on type for the There is considerable tride in cotton to Italy which is not sold on type but is sold on grade. The buyer likes to buy the cotton on grade and to receive large allowances This system which is known as the Home guarantee system is a peculiar trade of its own

4741 Mr Muller -As regards mixing I think one can detect it over ten per cent I had a sample the I was told that it contained five per cent I noticed that it was mixed but other day of Punjab American I could not have said exactly how much per cent As a general rule it is safe to say that it is difficult to detect a mixture up to ten per cent unless it is tested by the manufacturer. It would be a most excellent thing if consumers declined to buy all mixed cotton. There are great many consumers in this market who do seem to find mixed cotton to their liking. The remedy lies in the hands of the trade to a certain extent I do not see any real objection to the mutual allowance clause of the Bremen contract being introduced by the Bombay Cotton Trade Association and also in Liverpool But there would have to be a limit, i.e., it should not be possible to tender Broach against "Fine Bengals" There would have to be the same limit "on "as on "off"

4742 Mr Hearson —It would be hardly fair to allow a man to tender cotton half a grade, i.e., Rs 20

I am generally in favour of the Bremen Clause being inserted in contracts

4743 Mr Hegg —In Bremen they have paid and independent arbitrators Here and in Liverpool the system is the same, the Directors of the Cotton Association are the arbitrators Personally, I am m favour of having whole time arbitrators. One difficulty is in getting the men. The question of salaries would present no difficulties as that could be paid out of the fees. It would be very difficult to get a man with sufficient experience of Indian cotton except one who has already got some employment out here—It would probably not suit him to throw up his job—If the post could be made sufficiently attractive, one could get the men

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4744 As to saw gins *icrsus* relier gins, the only experience that I have is in the Hubli district with Dharwar brican cetton. There certainly our experience has been that roller gins give the better staple.

4745 Mr Hearson—We had some Cambodia sent to us from the south. It had been ginned in saw gins American cetton

The report on it was that the staple was not as good as that of similar cotton ginned in roller gins, but that the grade was higher

4746 Mr Muller -The grade is certainly nuproved by san ginning but the staple is much reduced

staple is out to bits

4747 Mr Hogg -That corresponds with our experience at Hubbi Formerly we used to put Dharwar American through the saw gins but now we are putting it through double roller gins We find that we can spin considerably higher counts in the case of the roller gin than in the case of saw gins

4748 (Mr Roberts) Mr Hearson —In paragraph 4695 of our written evidence, we have used the word "perhaps," because we have had not much experience of Punjab American We have several years' ex

perionce with Cambodia

4749 Mr Hogg -We do not know enough about Punjab American and nobody on the Sub Committee was prepared to express a definite opinion in regard to it. So we thought it better to use the word "perhaps" Very limited quantities have so far come down this serson owing to rulway difficulties and only a few bales of samples have been received

4750 Mr Muller -It is difficult to compare the Broach rate with the Punjab American rate or with other rates as the Bronch rate is a paper rate, it is artificially low at present. Any cotton sells better than Broach just now. The Bronch rate is purely a speculative rate. People are prepared to pay a better price for Punjab American this year than last. They are taking much incre interest in it this year.

4751 Mr Hogy —As regards the difficulty of classification, the principal difficulty is the difficulty of survey if cotton were seld on the basis of length of staple, the survey would take a great deal longer time than under the present system. The second difficulty is whether such a system would be acceptable to the consumers here After all, we as merchants cannot very well dictate to the consumer where he shall buy his cotton If he prefers to buy on the name of the station, we can not prevent him from doing so. If the station names If the station names were sub divided and there were say three, four or five different grades for each stition according to the length of the staple, and character of the staple and class, there would be such an unfinity of grades that things would If you are going to introduce length of stuple character of staple and become too cumbersome altogether class, you would practically have to do away with the present system. Keep broad territorial classifications if you like, such as Bengals, Oomras and kumptas and do away with your Khangaon Akolas and various other station names. Only have the broad district names and sub divide according to length of staple, fineness One of the great and roughness of staple or class Even then you would have a sufficient number of grades difficulties with regard to the introduction of improved staple in India is that if the cotton is grown in a new place it takes years to get a fair price for it. If it were possible to have classification on staple, it would be In the case of ready cotton, it is absolutely left to the buver whether he will pay the price or not If the system of buying on staple could be introduced it would lielp the cultivator to get a proper price for long staple Gradually as the buyers become accustomed to buying on staple, they would get to loso interest in the name of the station and would get away from the fetish of names
4752 Mr Hearson—The prohibition of transport by rail might be a general prohibition

why a general prohibition of transport of lapas or cotton by rail except to ports or under license should inter-Licenses would have to be granted for moving cotton within the districts fere with legitimate interests at all If there were only limited prohibition it would be very cumbrous and it is better to have legislation as simple as possible If you were to start by prohibiting the movement of cotton by rail from some places only, there would be no end to it. Of course, there are only a very few long stuple tracts which one would want to protect. Any up country mill would have to be given a general license to transport cotton from any rural station to Even with the law as proposed, there will always be a fair number of buvers who will still their own station be willing to buy mixed cotton. As long as money is to be made by mixing cotton, it will go on. You will never get all the sellers to co operate. My personal opinion is that the ultimate remedy lies with the trade

4753 Mr Muller—I do not think that the Homo guarantee contract has tended to lower the quality adian cotton—It is more an outlet for undesirable cotton—The rubbishy cotton is sold cheap under this of Indian cotton The trade provides an outlet for it in this way and the system apparently suits the buyer. It is vely a small trade. I certainly do not think that any cotton districts deliberately grow inferior comparatively a small trade

cotton in order to enter exclusively for this trade

4754 Mr Hearson—The rain damaged Bengal and Khandesh cotton all goes to this trade

4755 Mr Muller—I do not think there is very much in the idea of establishing local chambers of com
merce up country—I am afraid it would tend to increase hitigat on—I should not like to have disputes settled It is better to have them settled by the central body with fixed rules and uniform principles up country If there were a number of chambers of commerce up country, it would bring about diversity of procedure There is a good deal of suspicion up country of Bombay arbitration

4756 Mr Hogg -My experience is that there is no particular difficulty in settling these matters amicably We do not find ourselves involved in a series of litigation up country Our local agents do not appear to havo

any great difficulty in settling disputes
4757 Mr Muller—That is not my experience for we have had a certain amount of trouble in arriving

at a settlement in some cases

4758 Mr Hogg — There is very little litigation so far as I know We hardly ever have anything of that sort except in one or two isolated instances. It depends on the course of the market There has been trouble in up country markets this your as the price of Indian cotton is so high

4759 A senior member of the Agricultural Department, if ho could give the time, would be an excellent associate to Chambers of Commerce

There are many ways in which the Chambers are closely connected with produce like cotton and wheat

If a senior member of the Agricultural Department were able to attend

meetings to discuss questions about these, it would be a good thing

4760 (President) The eotton forecast is not satisfactory, so far as the outturn goes Personally I think the calculation of figures of yield should not be done by the Revenue Department but by a separate staff under the Agricultural Department

The great point I would make is that the figures are now collected according to administrative districts

The trade does not look to these at all I think that it would be much better to divide the country up according to the trade classifications In conjunction with the Cotton Trade Association one could easily work out these tracts and then each tract should be placed in charge of an agricultural officer with a staff of reporters My idea is that an agricultural officer would be in charge of

Mr G Bolagis

each tract, for instance, Berar, and that he would again sub divide the district into smaller reporting areas and put a man in charge of each such area The latter would be a native assistant who would do nothing but go about and watch the crops, not only cotton but all crops and report in regard to their progress and estimate the yield as early as possible. The officer in charge of the tract would then compile the figures for the whole tract and hand them over to the trade and to Mr Shuras who would make the compilation for the whole of India This system should work well and I do not think that it would be very expensive The staff would be pad by Government

The cotton pressing and ginning returns are practically useless They should be made compulsory,

but it is no good making them compulsory unless thoy are also made compulsory for Native States
4762 As regards any gins, we have some evidence about it. It might be an advantage if the It might be an advantage if the question

of sw gins tersus roller gins were thoroughly worked out
4763 Mr Muller—Personally I should like to see the evidence, which has been taken by the Committee, published but the others are indifferent

Mr G BOYAGIS of Messrs Rallı Brothers, Bombay.

EXAMINED AT BOMBAL, JANUARY 29TH, 1918

No written statement was submitted by this witness

4764 (Mr Wadia) My firm has agencies practically all over India and factories in many places in India Tando Adam in the north to Tuticorin in the south as well as in the Comilla district. The girs in our from Tando Adam in the north to Tuticorin in the south as well as in the Comilla district ginning factories are all roller gins except for the two or three say gins we are trying at Nawabshah think that there is any special reason for the preference for double roller gins in the south and for single roller gins in the north. I think that it is really a matter of fashion. One can get the same number of double roller and of single roller gins in a factory. As far as we can work it out, double roller gins give one and half times the outturn of a single roller and so the installation of double roller gins saves space and labour as they require only the same number of hands as single roller gins. We have found that double roller gins work very well in our fuctories at Nagpur and Akola

4765 The Japanese buy a lot of short staple cotton and pay rather a high price for it. They use it for yarn which they export to China. One of the methods by which Japanese firms oust the competition of foreign firms from their markets for import of cotton is as follows. The Japanese importing firms arrange with the mills that if they buy cotton from them they (the importers of cotton) will buy back the yarn from the mills and export it. For example, they tell a mill owner that they will sell him 500 bales of cotton and they promise to buy the equivalent quantity of his yarn and export it to China. The shipping firm is and they promise to buy the equivalent quantity of his your and exports it to only an importer of cotton into Japan and an exporter of yarn from Japan to China. There is a big demand for short staple cotton from Japan and they require a lot of short staple cotton. The Japanese do not buy very low Bengals. We find that they are always buyers of the highest class of Bengals. They are very lean buyers short staple cotton from Japan and they require a lot of short staple cotton. They are very lean buyers of Khangaon Akolas, and other Berar and Central Provinces cotton. These styles form the bulk of their they are also buy fair quantities of stapled styles particularly Tinnevelly. The reason why they are starting firms of their own is that they are trying to get their cotton selected themselves and have established agencies in most of the cotton districts

4766 We were one of the firms which refused to buy mixed cotton in Tinnevelly Of course, the moving spirit behind the arrangement was Mr Chadwick. All the firms bound themselves not to accept cotton Of course, the moving from any of the dealers there which contained any pulichar above a certain percentage which I think was three per cent. Anything in which the percentage was more than that had to pay a penalty and it had a good effect We ourselves had to pay a penalty in one case. The percentage of pulichar was discovered by examining the seed because the seed of Tinnevolly and pulichar are casily distinguished. As to whether such a policy could be followed in the Punjab American tracts, I am afraid that is a problem which could not be solved anywhere else than in Tut corin because there is only a limited number of buyers there all of whom are of good repute They have a name to keep up and when thoy give promises they keep to them. In other districts, where there are a thousand and one buyers such a policy could not be carried out. Tinnevelly is peculiar. If the district opened up and there were any number of buyers there and if the cultivation of pulichar were resorted to agun, it might be a hard problem to oradvate it agun Had it not been stopped, the short stapled cotton would eventually have spread all over the district which would have lost its name unless

the ryots found that it was not paying them to continue growing short staple cotton
4767 Rough cottons are sometimes valuable Take the case of Comilla from Assam which is the roughest cotton in India It can be mixed very well with wool. It was taken for that purpose by spinners Roseum might find a market for the same purpose if it were very clean Some roseum is fairly in Saxony Akot produces one of the roughest cotton in Berar It is very white and very bulk, and is sought after a great deal by Japan though it is shorter in staple than Khamgaon I do not know whether it gives a better outturn in the mills owing to its bulkiness and tho loss being less

As to whether if short staple cotton were marketed separately and not used for mixing, it

would fotch the same price as at present, it is a question of supply and demand. But I consider that it would find its own level and that there would probably be a drop in price.

4769 The cotton crop for which Calcutta is the shipping port is Comillas, a crop of about 25,000 bales It is a very clean cotton of varying grades of roughness, the roughest being Assum, then Chilman Assam, then Tipperas and then Comillas We reckon the known Burma crop at about 45,000 bales of which some 15,000 to 20,000 bales goes to Calcutta for consumption by the mills there, the balance being exported direct from Rangoon to Europe Lancashire takes a good portion of this crop when the quality is good. It is stated that large quantities of Burma cotton go direct to China from the interior We have no agency in Burma Calcutta also receives from 80,000 to 100,000 bales of *Oomras* and Bengal cotton from up country stations, some for consumption by the mills there, and some for export to Japan Fair quantities of stapled cotton go there also for mill consumption

4770 (Mr Hodghmson) In talking about up country samples sent for valuation, I told you yesterday that they should be twenty pounds samples pressed and sent by passenger train. For the Liverpool valuation of cotton, I would recommend that a bale should be sent. That is what we always do in our own business When arbitrators adjudge samples for arbitration, they are always samples newly drawn from the biles. That gives a good idea of the cotton. If you get a bale, you can draw a sample straight away and compare

it with the type sample, the standard box or whatever you have to go on

THE BOMBAL COTTON ENCHANGE

4771 Punjab American has a better colour than Cambodia The loss in the blow room I should say, from what I know, is more in Punjab American than in Cambedia. The staple of Cambedia is better on an average I am referring to the Punjab American I have seen up till now I have not seen this year's erop I should say that the Cambedia spins the higher counts Cambedia is stronger than Punjab American, se I understand from people here

4772 The expert of Indian cotton to Japan last year was about thirteen lakks of biles

THE BOMBAY COTTON EXCHANGE

EXAMINED AT BOMBAL, JANUARE 30TH, 1918

Written statement submitted by the Hon'ble Mr Purshotamdas Thakurdas, M B E, Chairman of the Board of Directors, Bombay Cotton Exchange

II —COMMERCIAL ASPECT

4773 (30) Local trade customs -For local cetton trade custom in Bembay we enclose a copy of the *Rules and Regulations of the Bembay Cotton I'vehange which state the customs and rules governing spet and forward transactions in cotton Changes in these are made from time to time by the Board of Direc tors with the general concurrence of the various bodies interested in the cotton trade of Bombay, 112, Mill owners, mukladams, brokers, Japanese shippers and the Bembay Cotton Trade Association

(2) Regarding marketing of the cetton erep in the districts, customs vary in each district, and in smaller details, at each market centre of a district It is presumed the Committee has got the necessary informa

tion from each district it has visited and honce it is not considered necessary to report this information here
(3) Regarding the system of the cultivators agency for marketing of Lapas in the districts, this also varies in various districts. The intelligent cultivator of the Suret and Broach districts does not, as a rule, employ an agent to sell or market his Lapas If he does not or cannot sell his lapas from his residence, he markets it himself and sells it to the highest bidder on that day He recovers the each for it immediately. On the other hand the ryot of the United Provinces or Khandesh sends his kapas to his aratya or commissional sends his aratya or commissional sends his kapas to his aratya or commissional sends hi He recovers the eash for it immediately sion agents for sale and pays him a commission for the same These aratyas, wherever they are influential and woalthy, are aratyas or commission agents for buyers also, and this dual expresty of theirs exposes them

te a considerable temptation

-The system of advances to cultivators on their lapas divides itself into 4774 System of advances two cluef parts The first is advances against standing crops before the crops are matured and the other is advances against actual lapas when marketed Regarding the first, this system is generally known as "jalap" and means the ryot estimating the outline from his field and selling the same to the salular at a rate equivalent to anything from Rs 30 to Rs 100 per I hand; of cotton lower than the rate prevailing in Bombay Against this sale the salular advances him 50 to 100 per cent of the cost of the lapas so bought The risk of such a buyer is twofold Firstly, the risk of unforeseen ruin of the erop quantitatively and secondly the risk of unforcesen damage to the quality of the erep by untimely rou or frost. This system was very provalent twenty years back. The Decem Agriculturists' Relief Act considerably discouraged this practice, but it still prevails to a fur extent. There is a good deal to be said against this practice of jalap But, in recent years, when the prices of ectton may be said to have brol en records of anything up to the last fifty years, the ryots themselves have shown great anxiety to avail themselves of rates which appear All that could be suggested on this score is that co operative credit societies should te them to be very high undertake what the village sahular does and should retain the margin for themselves in exchange for the risk that jalap operations ontail on the buyer. As a matter of fact, I have not yet been able to comprehend why the various co operative credit societies have not done so till new in their districts.

(2) The second mode of advances is the ordinary method of advances against lapas brought to the

market and I am not aware of any particular disadvantage to the ry et in this

(3) Regarding the advances made by Bombay commission houses against consignments bool ed to them it is presumed that the Commission requires no information as no complaint has been heard about the same

(4) I would, however, suggest the necessity of starting agricultural banks in districts to enable oulti vators to hold their growths, when crops no matured What happens at present is that, at the time for pay ment of Government dues which is almost the time when the cetton crep matures, the cultivator must sell his crep at whatever is available to him irrespective of whether the price leaves him a margin or not This was particularly clear during the latter part of the year 1914 and the first few months of 1915 when the cetten prices were very close to cest price to cultivators In order to improve the cendition of the Indian ryet, it is absolutely necessary to make evallable to the cultivator means of financing his crop with adequate margin, of course Private enterprise cannot step in here as the first lien on a ryot's crep is the Govern But Government agricultural banks can well be a sure safe method of protecting the culti ment dues vator against slumps in prices. It is well known that such agricultural State banks have contributed very materially to the prosperity of the agriculturists (cultivator) in America and it is very necessary that the Government of India devise the same means for the prosperity of the Indian agriculturists One of the immediate advantages of these agricultural banks will be the popularisation of Government promissory notes in the agricultural districts and perhaps a solution of a great financial question may be forthcoming in this direction.

4775 Future buying of contracts for kapas —Refer to what is said above under "Advances" 4776 Future buying of contracts for cotton —This is done generally by the middlemen and I am not aware

of any particular hardship to him in this

4777 (31) Standardization of commercial names—Regarding the commercial names of the various grades of cotton with which the Bombay market is acquainted and the areas from which these grades come, refer to pages 22 25 of the Rules and Regulations of the Bombay Cotton Evchange enclosed herewith to whether these names of the various grades are suitable or not, a good deal may be said on both sides has, however, been found that fer the purposes of a general check, the nomenclature of cotton according to geographical areas is most convenient Regarding the last question in this paragraph, exporters to Japan

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[Continued

and Europe do, from year to year, sell cotton according to their standards, irrespective of the area from which the cotton may come, the main anxiety of the buyer being to get exactly what he has bought, and of the seller to retain his customer, which necessitates careful selection of the process shipped against sales. It may be said that the local mills have not yet taken to this mode of buying and the experter buyer will never take to it if he has the necessary facility for buying in up country markets

TTT —STATISTICAL

4778 (33) Improvement of cotton forecast—The cotton forecast rs at present published is more accurate than it used to be, say, five years back—I would, however, suggest that if a foreast is to be of any value the system in vogue in the Agricultural Department in America should be followed—

In America the persons sending returns of the condition of the crop send, not their opinion, but facts, e.g., size of plants, condition of soil, distance between plants in the fields, etc., and this information is filled in cards printed for the purpose. All this information is tabulated by the superior officers and the result is very different from the result of reports by people who report by fits and starts and without having any

fixed lines on which to report

4779 (34) Improvement of ether statistical information—The cetton press returns as at present published are most incomplete and as such constitute a waste of public money. The return for the year ended 31st August shows the total number of bules at less than what was imported in Bombay during that year and it is difficult to understand what purpose the publication of such returns on serve except to prove from week to week that press owners are not sending in their figures. I do not think it necessary to publish any returns unless they include figures from a large majority of factories concerned. On the other hand, the weekly figures of arrivals of Lapas and cotton as published by the Agricultural Depertment, Central Provinces, are useful and interesting and may be well kept up. It may be suggested that it would be best to have the Government officers issuing various returns in close teach with the commercial community at each centre, viz., at Bombay for cotton, at Karachi for wheat, and at Calcutta for jute, etc.

4780 (35) Publication of Liverpool and Bombay prices—Tho daily publication of Liverpool and Bombay cotton prices at up country markets seems to have a charm for many people. I am emphatically of the opinion that such a publication of prices will, without a close and continued watch on the same, more often than not, be misleading not only to the middlemen upcountry, but more so to the ryot. Since the outbreak of war, the sympathetic fluctuation between the Liverpool and Bombay prices has completely disappeared owing to various reasons, as for oxample, rise in freight, war risk insurance rate, etc. Even fluctuations between up country and Bombay markets are often unconnected owing to the frequent stop pages of railway booking and consequent depletion of stocks in Bombay of particular varieties at the

time of settlement or when a few steamers may be loading for, say, Japan

(2) Even in normal times, I submit that great care will have to be taken in watching the quotations given to the up country markets. If the Laverpool spot quotation is to be given, it must not be overlooked that there are, at several times in each year, either squeezes or depressions, owing to local conditions of stocks in the Laverpool market. Such fluctuations, therefore, in the spot market would only be of local interest there, and may be quite misleading to a set of people who are not ordinarily acquainted with influence governing broad. Western markets. This applies to quotations of forward deliveries in Liverpool too, and I would submit that to give a correct idea of the course of the market from the Liverpool quotations, a good watch will have to be kept continuously to avoid any of the misleading inferences mentioned above

(3) Regarding the Bombay prices, people in favour of same being published in market centres up country ordinarily want the "Good Breach" price which at best is a hedge contract most susceptible to unjustified depressions and premiums. It has many a time happened that the difference between April Breach and, Fine Alola or Fine Bengal or Fine Khandesh, January, which, in a month of July, is in favour of Breach vanished by November or December, and frequently Akola for January is at a premium over Breach for April. Thus, therefore, the "Good Breach" quotation too has great possibilities of being misleading

(4) It may be contended then that we should give in each market the quotation in Bombay for the quality available in that market. It must be remembered that in Bombay the quotations are for "Fine," "Fully Good," or "Good" by class. The quotations also vary according to deliveries a following month's delivery is usually being at a discount over the previous one. If it be proposed to give quotations for "Fine" class, and if the actual arrivals be for "Superfine" or "Fully Good," the quotation will not be any guidance for the seller at all. It has to be borne in mind that the middleman up country, shrewd as he is, is not yet on an average able to judge approximately the class of cotton. The ryot to my mind, is hopelessly ignorant of it. The Bombay prices, therefore if they are at all to be published up country will have to be for the quality of the cotton of the district and of the class which the average crop of the season represents or preferably of the class shown by average receipts of kapas in the market, and further, for the delivery which can safely be available to the buyer up country on a particular day. If these precautions are tall on, there may not be the same risk of misleading up country markets with quotations of the Bombay market but without them I am strongly opposed to up country markets being flooded with Bombay quotations which do not bear on the commodity offered them for sale.

(5) I believe that the keen competition existing at present in every mojussil market of impertance or of fair size, always procures to the sellers in these markets the very fullest rates justified by demand in not

only Bombay but in such an important consuming market as Japan too

IV -MANUFACTURE

(a) Ginning and Pressing

4781 (36) Type and number of gins and presses—The class of gins ordinarily used in India is the roller gin, single and double, as suitable to each district. On the Hindh and Dharwar sides, saw gins are used, but except in these districts saw gins are never used and earry a certain prejudice with them. As to the presses, the ordinary class used is the steam full press with either a compound or separate finisher. A few of what are known as Cummins presses are also used. The chief advantage of Cummins pressed bales is the saving in space caused by them and owing to high freight to Europe since the outbreak of the war, Cummins pressed bales fetch a premium of from Rs 10 to Rs 12 a khandi from buyers exporting to Europe These Cummins presses would have multiplied very fast, but there is a special prejudice that cotton pressed

in Cummus presses has its fibre injured in the process of pressing, and even it present Japanese mills sen ously object to bales of smaller measurement than the one about giving 27 tens per 100 bales (Bombay Chamber's scale)

4782 (37) Size of bale —The usual size of bales handled in the Bombay market is 50 ins × 18 ins

20 ins

4783 (38) Saw-guis versus roller gins —I am of the opinion that whilst roller gins are very suitable to the staple in the Indian deshi cotton, both short and long stapled, saw gins, whilst turning out a much

to the staple in the Indian deshi cotton, both short and long stapled, saw gins, whist turning out a much cleaner lint, play has or with the actual body of the lint, presumably owing to the short staple in the lint 4784 (39) Effect of saw-gins on Indian cotton—Till now saw gins have not been successful with Indian cottons except in the districts mentioned in paragraph 4781 above. The objection to saw gins is mentioned in paragraph 4783 above. I am aware of an enterprising exporting firm having bought a factory of saw gins very cheep, somewhere in the Punjab, but even they are reported to have given up the experi ment as their buyers in Europe were not satisfied with the condition in which the lint reached them, even though the lint was much cleaner It is possible that there may be a conservative prejudice against saw ginned lint, but to destroy this prejudice many experiments and trials are needed

4785 (40) Factory labour -Great difficulty in obtaining factory labour has been experienced during the last five years Wages have gone up by a hundred per cent, in several districts, and even then factory labour is not available to the full extent, especially when crops are good. I fully remember years when cul tivators paid for labour to pick Lapas in fields something more than what was available in ginning factories Higher wages for factory labour are responsible for increase in ginning charges and in addition to one meal dearth of labour resulting in partial or irregular working of ginning factories also increases the cost of ginning I do not anticipate any material improvement in this state of affairs and feel that it is necessary to devise some means of automatic feeding of gins as in America, I have made certain inquiries in this direction but I am not yet ready to fit a ginning factory with automatic feeders. I, however, feel that if the dearth of labour experienced in the last five years continues, it is absolutely necessary to devise system of automatic feeding for gins *

4786 (41) Condition of cotton —If the words "raw cotton" in this question mean cotton in any but full pressed bales (i.e., in half pressed and three quarter pressed bales) the word "factory" in this question can only refer to a press factory If on the other hand, "raw cotton" means Lapas, the word factory" stands for "ginning factory". There is no difference of opinion that at times both Lapas and raw cotton to a unpressed but the reach factors are able to the reach factors and the cotton to the control of the cotton to the cott cotton, i.e., unpressed lint, do reach factories in an objectionable manner, as a rule this is part outarly so in the ease of cotton where the middlem in delivers against future contracts made at rates lower than those

ruling at the time of delivery Speaking generally also, the ordinary temptation to mix is always present wherever kapas of two qualities is easily available

(2) Regarding the ryot's objectionable way of marketing kapas, the habit of bringing in kapas so wet that water our be squeezed out of it is a standing complaint in many a market At Chandausi and Etawah, my firm's experience has been that out of one mound of Lapas paid for, only thirty seers is the actual quant ty available within a few hours of drying the Lapas in the sun. The Lapas, before it is marketed, is exposed to the night's dews and then loaded in carts. This evil was so bad that several times agents of Bombay firms at Etawah made efforts not to buy such wet lapas, but influential aratyas, who played the double part of sellers and buyers (aratyas referred to in parigraph 4773), frustrated the combination and refused to handicap wet arrivals of Lapas

(3) My opinion is that, as a first and most harmless step towards prevention of reckless mixing of lapas and cotten of various growths, and of watering of lapas and cotton, something on the following lines should

be done

(1) Curriage by rail or by sea of Lapas or of lint cotton in any but full pressed bales should be totally prohibited by statute except where the consignee is a mill owner from whom proper guarantees should be taken that he will not sell same in any but full pressed bales. This should cause no hardship to genuine honest trading in cotton and will at once check the reckless inter district

mixing of eotton or lapas

(2) Ginning and pressing factories should be licensed by Government, the license foo being small and the control of the factories being vested in Government, action being taken by Government on the recommendation of a strong select committee of persons interested in the cotton trade and not otherwise This small committee should organise similar committees of control in market centres up country from amongst buyers and sellors there These two measures, though neither thorough going nor complete in themselves, will go far to divest the cotton trade of some of its most exasperating practices at present prevailing and even the cotton cultivation will benefit materially by it

(4) The scheme outlined above his the special feature of freeing the trade from the control of inspectors, which was such a grave source of complaint during the operation of the Cotton Frauds Act time, I believe that it will have more or less the desired effect in as much as that a committee of local merchants in any market centres would not tolerate any serious breach of the rules and regulations, as the same would mean a certain advantage to that person in trade, at the same time the committee would be able to bring defaulters to book without harassing honest traders. I would make the Bombay committee fully representative of persons and firms buying in the districts and this organisation should, to my mind, servo both Government and the trade fauly

4787 (42) Effect of replacement of short staple cotton by long staple —I do not anticipate any substantial alteration of machinery in gins or presses in India if any large quantity of short staple growth were substituted by long staple growth provided that the same be deshi, i.e., provided no exotic seed is in

troduced

V-GENERAL

4788 (46) Attitude of bayers to improved cottons—Buyers have been prepared to pay a premium for long stapled cotton over short stapled one. It cannot be denied that local mills have always been show ing discrimination in this direction but the difficulties have perhaps been that the average run of agonts of buyers up country have not been thorough going and prins taking enough in their efforts in the districts to secure the pure staple growth even though the same may have been available at a small extra cost and some personal trouble

THE BOMBAY COTTON EXCHANGE

[Continued

- (2) I may quote here the instance of my firm's handling the Surat Farm kapas growth since 1913 immed lately after the Bombay Syndicate failed with it—I have been paying for thit kapas a net premium of five per cent and have never found difficulty in selling the lint simultaneously to a local mill which has never repented the purchase but has always asked for more of the same quality
- 4789 (3) Indigenous long staple versus exotic cottons—Regarding the general question of long versus sbort staple cotton, my own opinion is that, at this stage, the best efforts of the Government should be restricted to preserving the indigenous long staple cotton. I do not claim any authentic knowledge regarding the result of exotic seed in Indian soil but my information is that this is not likely to thrive under the climatic, economic and other conditions of Indian agriculture. Perhaps the exotic seed may be experimented within areas with irrigation, but for the rest of the districts immediate attention is necessary regarding measures to prevent deterioration in existing qualities and to reintroduce, as far as feasible, the old indigenous stapled seed of each district
- (2) Whilst on this subject, I would like to quote from a lecture delivered by Sir George Watt in London in April 1904
 - "The Government of India, he said in conclusion, tried improvement of cotton by acclimatisation of the triumphs of other countries for nearly a century. The result may be said to be that every known cotton exists to day in some parts of India. G. hirsutum is the saw ginned Dbarwar cotton of the Deecan, Bourbon cotton is to some extent cultivated in South India. Other forms exist as garden curiosities and a few have escaped into the hedgerows and waysides. They have been abandoned because found unsuited to India, and thus have become naturalised. But the practical results of a century of acclimatisation have been remarkably little. On three different occasions experiments on a large scale were conducted, but if anything the quality of the Indian staple fell back rather than improved
 - "On many occasions, I have upheld the opinion that by far the most rational and hopeful course would be to attempt improvement by natural selection in direct adaptation to local climatic and soil conditions. For this purpose the indigenous or long acclimatised plants should preferably be used to freshly imported stock. But, as already explained, the proverty of the Indian cultivators throws on the Government the entire responsibility of the requisite experiments, which to be a success, would have to be simultaneously performed in each important cotton growing centre and conducted by trained experts
 - "One of the foremost contentions that I have endeavoured to press on your attention this afternoon might be said to be the necessity for more accurate study botanically and physiologically, of the cultivated and wild species of the Gossypium. We should not only be able to identify overy form of cotton but be in a position to say whether or not cottons proposed to be experimented with in this country or that stood a reasonable chance of success. We are at present grossly ignorant of the most ordinary particulars regarding the botany and history of the cottons. And this state of affairs cannot be remedied by herbarium work."

Supplementary written statement submitted by the Hon'ble Mr Purshotamdas Thakurdas, M B.E., Chairman of the Board of Directors, Bombay Cotton Exchange

- 4790 Preamble—I have already sent through the Bombay Cotton Exchange my views on questions Nos 30 and following of the questions issued by the Cotton Committee Hereunder I beg to put before the Committee my views regarding the whole question of improvement in growing and marketing of cotton in India—It is said of Indian cotton that it is sown anyhow, grown anyhow and mixed anyhow—This charge against Indian cotton is a very liackneyed charge, repeated rather frequently
- 4791 Mixing of cotton in the field —Regarding the sowing of the crops, it is now conclusively proved that during the last few years, even the Agricultural Departments have been encouraging growth of seeds that yield largest quantities with best outlurns quantitatively irrespective of the staple in each case. From letters that passed between the local Cotton Trade Association and the Bombay Agricultural Department in May last, you will see that, in the Broach District, the goghan seed has been encouraged by the Agricultural Department in preference to the deshi long stapled seed, on the ground that the former yields a better return to the cultivator. This impression of better return from the shorter stapled seed is a fallacy. This fallacy will continue as long as there is, in the district, longer stapled lint available to the middlemen with which to mix the shorter growth. No sconer the longer stapled growth disappears, it will be found that the shorter stapled lint is not in demand on the same party. The precedents for this are not absent, the history of the Muthia(mathio) crop in Kathiawa being a most eloquent example of this. I would therefore very strongly recommend that, in every district, the Government should recommend the Agricultural Departments to oncourage the growth and retention of the seed of the long stapled variety of the district.
- (2) It may be of interest to give herounder the views of the Bombay Agricultural Department regarding the conditions during the last ten years as far as mixing of seed in the fields is concerned. Wating to the Chamber of Commerce in 1906, Mr. Fletcher, Deputy Director of Agriculture, says as under
 - "Ever since I came to India some 2½ years ago, I have had the question of admixture of cotton under constant observation, and I may say that, except to a small extent in the Ahmedabad and Dhar war districts, I have never seen a field of cotton of Surtee Broach, lumpta or saw ginned Dhar war that contained more varieties of cotton than one. It may be taken for granted that the varieties grown in the Surat and Broach districts at least are grown pure, and that any admixture that is found takes place after the large has left the cultivator's hands"
 - In 1917, the Director of Agriculture writes as under -
 - "South Gujarat —The cotton in the Breach Surat tract is identical except for the fact that the climatic conditions favour a longer staple in the south (Navsan) and a shorter staple in the north (Breach), with Surat intermediate between the two in point of staple. There is one other fact, however, to be considered, viz, that in the Breach district, there is, in the field, a considerable admixture of goghan cotton, which has a higher ginning percentage but a considerably shorter staple. In some parts of the Breach district the admixture is about half and half, and since the buyers buy almost exclusively on a consideration of the ginning percentage, this Department is producing for the

THE BOMBAY COTTON EXCHANGL

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cultivators seed of a pure strain of high gimning gogham cotton, because that fetches the best price In Surat, the admixture of gogham is much less and this Department aims there at producing seed of pure strains of Surat cotton of which the staple is at least as good as Surat but the ginning percentage higher."

(3) There certainly has appeared in recent years a genuine desire on the part of local mills to buy stapled cotton if available at a certain premium over the short and mixed stuff. There is a good deal to be desired in the ways and the systems of the buyers' agencies up country, but this may safely be expected to adjust itself before very long. What should be done by the Government is—

(1) encouragement to the cultivator to grow the indigenous long staple of each district,

(2) prevention of facilities to mix growths of other districts,

(3) organization of a market system at each important cotton centre on the lines of the market system in the Berais

(4) Regarding (2) above, I enclose a copy of a Note (Annexure I) prepared by me for the Director of Agriculture, Bombay, in April 1917, which shows my views in detail. I am fully alive to the remark that the remedy suggested by me in my Note enclosed herewith will not check mixing of various growths in each district. I suggest no click on carriage of kapas from one district to another by earts. This is because it is not easy to check this without having a big staff of Inspectors and other low paid Government servants to keep a watch, and I am not prepared to expose the trade to this class of Government servants I would, however, try the easily available remedy and watch the results.

(5) It may be interesting to the Committee to know that a few enterprising Chiefs in Kathiawar penalized exports of raw lapas from their limits in any form but of full pressed bales about 1911-12. The ginning and pressing was done in the States' own limits and in State owned factories. At the commencement, eriticisms were heard regarding the States making money out of ginning and pressing charges on their ryots' lapas. But the net result of it all has been that the quality of the growth in these States has improved remarkably and has inspired the buyors with considerably confidence in cotton coming from these States. In one of these Native States, I know that the Muthia (mathio) has totally disappeared and long stapled growth has been taken to to the advantage of both the growers and the consumers

4792 Exotic growths —I am not in favour of evotic seed being tried in India The following quotation from an article written in 1903 on cotton cultivation may be given here —

"The orun of Mr Mollison's argument is that there is overy hope of improving the quality of Indian cotton from within Exotics have proved over and over again a failure. But the experiments with the oross fertilization of indigenous varieties show that it is best to persovere with that process. Like the practical man that he is, he recommends that 'no attempt be mide to extend cultivation beyond small demonstration farms until it is absolutely proved that superior varieties, which era-be grown without risk, have been produced. This is the right way to proceed. But the question is whether he is likely to find those 'practical agriculturists,' in every province who will 'conscient tiously supervise the work. However, we wish the experiments on the present lines every success and congratulate both Mi Mollison and Professor Gammie, and hope they will soon have made sufficient headway to encourage them to establish seed forms in every cotton growing district. But even then the question will still remain whether the economic condition meanwhile of the cultivator will so far undergo botterment as to enable him to buy the seeds which the farms may distribute and whether he will obtain that manure which is so absolutely essential for the purpose of giving the more productive results we wish for The farms are conducted on scientific principles, with ample manure. But the farms of the mass of cotton cultivators cannot be so cultivated for many years to come. Has the Inspector General of Agriculture taken into account the ordinary conditions of cultivation by the ryot? That is indeed an important factor in the matter of future improvement. The experimental farms should try to cultivate ection as the cultivators themselves do, and see how far they succeed with their cross fertilization and other modes of operation to improve the indigenous varieties."

4793 Necessity for a Central Committee —The extravagant and thoughtless mixing of desh and American Lapas in Sind is most exasperating and should be stopped without any delay. To do this effectively and without renewing the complaints made at the time of the Cetten Frauds. Act, 1875, it is necessary to have control on the trade through merchants, and I see no other channel for it except through committees of sellers and buyers in districts controlled by a Central Committee of responsible mon in the cotton trade in Bombay. This Committee will have to work on fixed lines but they will have intimate knowledge and experience of trade requirements and practices and should be able to bring about a healthy check on mixing and watering of lapas and cotton and otherwise effectively the cultivistors, interests to a

and watering of Lapas and cotton and otherwise safeguarding the oultivators' interests too

4794 Pools—In my evidence, giving replies to several questions of the Committee, I have made clear
the manner in which the interests of the cultivator could be safeguarded by so operative credit societies
advancing them money on standing crops instead of middlemen doing the same. I have also indicated
that agricultural banks could be started by Government to the benefit of the cultivators, enabling them to
hold their crops in ease of slumps or any combination amongst merchants to buy at cheap rates. There is
an impression, however, that ginning and pressing pools are a source of considerable loss to cultivators.
I have several returns supplied to me by agents of a few leading ginning and pressing factory companies
which I enclose herewith. I submit that, on the whole, the impression of gin and press owners having
made large profits from their operations is erroneous. Two of these leading companies inform me that their
earnings during the last ten to twelve years from ginning and pressing have not yielded more than six to
seven per cent. Anyway, from practical experience, I am convinced that, on the whole, the gin and press
owners have not done badly by the cultivators, and, for the future, if the power of controlling the creetion of
new factories in cotton districts be vested in the Central Committee, recommended by me above, I do not
consider any further steps necessary in this direction.

consider any further steps necessary in this direction

4795 Expansion of the Agricultural Department—I think it is very necessary that the Agricultural Department should have, on their staff a large number of well trained and educated Inspectors, etc., who could talk to the cultivators in their own language and convince them of what is to thoir own good. I have experience of how an Indian officer of the Agricultural Department has succeeded in influencing the ryots to their own great benefit and I would strongly recommend that if prompt progress is desired a large number of Indian officers should be added to the higher staff of Agricultural Departments all over India.

ANNEXURE T

Note on improvement in staple of Indian cotton prepared for the Director of Agriculture, Bombay [vide paragraph 4791 (4)]

The question of improvement in the staple of Indian cotton has been engaging the attention of the Govern ment of India for some years past and largo sums of money have already been spent in experiments in this direction The Bombay Government have started special ferms in the Agricultural Department for the pur pose and several very able officers have been experimenting on them

2 The aim in this Note is not to suggest how these experiments may be improved but to suggest a fea , siblo preventive measure against further deterioration of the natural staple of cotton in each district

will be conceded that provention 14 better than cure

3 The Kathiawar crop which, years back, was all a stapled crop has had the Muthia (mathie) seed in troduced there and to day a large percentage of the Kathiawar crop is Muthia. The difference in price of the two varieties to day is not least Rs. 75 per khandi (two full pressed bales) The difference in price of the

1 The Jalua, Barsi, Parbhani and Nander crops from His Highness the Nizam's Dominions suffer terri bly from mixture of short and long stapled growths. Roports of Mr Kenny, Director of Agriculturo, Hy

derabad, are very telling on this point

5 The Broach (rop has decidedly gone down in staple during the last ten years - Even in years of nor mel and bountiful ramfall the average staple of the cetton crop does not show the usual length or strength The price of Broach in Bombay, when not supported by speculative operations, has been close enough to average Berre cotton to justify the above named remarks.

6 The bane of Indian cotton trade is thoughtless and indiscriminate initing of cottons of long and whort stople. This method of short sighted merchants has, in the long run, never paid them and has curtailed their turnover in murit ets has Bomb 13, as infils and exporters desiring unmixed long staplo have resorted to the cotton districts to secure same. This mixing of cotton had attracted notice of the Government in 1873 when the Cotton Francis Acts was passed. That legal machinery, however, was a complicated one, giving considerable powers to Inspectors and consequently exposing the trade as a whole to real hardships The Act was withdrawn in 1878

7 Unfortunately the unscrupulous short sighted merchant has litely tal en to a worse form of mixing He mixes kapits (seed cotton) instead of cotton. This affords less chance of detection necording to his ideas 8 Kapits is brought from shorter stapled districts by rail to the better stapled one in wigon loads and is their guined and inixed with the better growth. We are not concerned here with what happens to this muxid het, but this method of mixing introduces the short stipled seed in the long staple growing areas and

the re ult 2 had have been de cribed in paragaphs 4 and 5 above
0 It is right ted that (a) carriage of Lapus by rail should be prohibited except for mills that have guis in their mills to pure une and guarantee that lint from the Inpro would be consumed in their mills and seed therefrom would be reld only for cuttle food or crushing and not for sowing purposes, (b) that export and import of kapes by country eriffs would also be similarly controlled

10 Powers will have to be received to the Covernor in Council or the Collector of a District to allow export of lujas in the exentiality of new areas coming under cotton not having local ginning facilities

Personally, I believe that adequate ginning facilities would be available in each district as soon as it is known that the local growth of each district must be ginned locallishing an exception may be served by powers

11 Such a restriction is that suggested in paragraph I above will prohibit, and effectively too, such had mixing of layers as on Broach and Muthia or of Parbham and Khandesh. The less exasperating and less dencerous mixing (though by no means less reproachable) of lapus of various stuples in one and the same district will continue, e.g., mixing of Sayan and Birdeh or Navsari growths in the Surat district, the mixing of Jambusar and Breach or Palej lapus in the Breach districts. The prevention of this is not as a mple and devising a method to do this without cenoes of the grievances experienced by the trade in the early

cightus (Cotton I rands Act) being heard is difficult

12 It is a question whether the movement of cotton in half pressed bales from one district to another too should not be similarly forbidden as a protection to buyers of cotton. There is no reason why Myagamu cotton should be pressed at Surat or Navrari. But the protection afforded by this will be to buyers of cotton.

and not to grows ra of the same. More may, however, be and of this later if necessary

13 However, it is very necessary that the import of waste and fly in cotton districts (where there are no mills requiring these articles) should be prohibited. There is absolutely no excuse for imports of these in the cotton growing districts of Jumpla and san gin Dharwar

ANNIXURL II

Statements showing ginning and pressing rates in various centres to illustrate the norking of Tools

(1) Ginning rates per palla at the undermentioned stations during the ten seasons ending 30th June 1917

| | 1937 04 | 1905 00 1000 | 10 1910 11 | 1911 12 | 1912 13 | 1913 14 | 1914 15 | 1915 16 | 1916 17 |
|--|--|-------------------------------|---------------------------------------|---|--|--|---|--|--|
| tor diquirus | Its a t | Pa a p lls | a p Jis a p | Re a p | Ranp | Its a p | Rs a p | Rs a p | R a p |
| Jalna Jarlyani Sather Sa pur Jecimal I llichpor Wardha | 5 0 0 5 0 0 5 0 0 112 0 4 8 0 4 1 0 2 14 0 | 1 0 0 6 3 8 0 6 3 8 0 6 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | f 0 0 0 5 0 0 0 2 12 0 0 4 7 0 0 4 4 0 0 4 8 0 | \$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 5 0 0 5 0 0 5 0 0 7 4 0 3 8 0 4 7 0 2 12 0 5 2 0 | 5 8 0 5 0 0 5 0 0 1 8 0 5 3 0 4 13 0 2 14 0 5 2 0 | 6 0 0 5 6 0 7 0 0 4 0 0 5 12 3 6 12 0 3 0 0 5 2 0 |

Remarks—
(1) Rates at and below Rs 380 show competition and no pool
(2) a 100 was ever formed at lander
(3) to 100 was ever formed at lander
(3) to but histanding increase in the number of factories gianla, rates were not increased belond Rs 5 although recis were
form d. The higher kinning rates during the last three seasons were necessitated by abnormal rise in the price of stores and the
Libour charges having one up very high and thus the increase in rates all only to well the profits of factory owners
(4) Central Provinces Government having adopted 392 lbs as the weight for a pulls the ginning factories had to follow suit, giving up the original 214 lbs, and had to increase their ginning rates in proportion

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(11) Pressing rates per bale at the undermentioned stations during the ten seasons ending 30th June 1917

| | 1907 08 | 1908 09 | 1909 10 | 1010 11 | 1911 12 | 1012 13 | 1913 14 | 1914 15 | 1915 16 | 1016-17 |
|------------|-----------------|---------|---------|---|---------|---------|---------|---------|---------|---|
| | Rs a p | Rs a p | Ranp | Rs a p | Rsap | Rsap | Rs a p | Rs a p | Rs a p | Raap |
| Gadag | 1 8 0 and 4 0 0 | }1 8 0 | 400 | $\begin{cases} 1 & 12 & 0 \\ 4 & 0 & 0 \end{cases}$ | }4 0 0 | 400 | 4 5 0 | 4 5 0 | 4 0 0 | $ \begin{cases} 0 & 0 \\ and \\ 3 & 8 & 0 \end{cases} $ |
| Barsi | 3 4 0 | 3 4 0 | 3 4 0 | 3 4 0 | 3 4 0 | 3 4 0 | 3 4 0 | 380 | 3 12 0 | 500 |
| Ahmednagar | 3 4 0 | 3 4 0 | 3 4 0 | 3 4 0 | 3 4 0 | 3 4 0 | 3 4 0 | 380 | 3 12 0 | 500 |
| Lhandwa | 3 8 0 | 3 8 0 | 380 | 3 8 0 | 380 | 3 12 0 | 4 0 6 | 406 | 4 4 6 | 5 12 0 |
| Jalna | 4 0 0 | 400 | 4 0 0 | 400 | 400 | 4 0 0 | 4 6 0 | 4 6 0 | 4 14 0 | 6 12 0 |
| Nander | 1 10 0 | 1 10 0 | 1 10 0 | 1 10 0 | 1 10 0 | 1 10 0 | 1 14 0 | 2 2 0 | 2 12 0 | 3 12 0 |
| Parbhani | 4 0 0 | 140 | 400 | 400 | 400 | 400 | 4 6 0 | 4 8 0 | 4 14 0 | 7 1 0 |
| Sailu | 4 0 0 | 280 | 400 | 400 | 400 | 400 | 4 6 0 | 4 8 0 | 280 | 14 0 |
| Akola | 3 11 3 | 3 11 3 | 3 11 3 | 3 11 3 | 1 11 3 | 1 11 3 | 2 1 6 | 286 | 3 4 0 | 5 12 6 |
| Nagpur | 3 8 0 | 3 8 0 | 1 4 0 | 1 14 0 | 2 10 0 | 200 | 2 2 0 | 2 6 0 | 4 0 3 | 5 12 3 |
| 1 eotmal | 3 10 0 | 3 10 0 | 3 10 0 | 3 10 0 | 3 11 0 | 3 11 0 | 4 1 0 | 4 10 0 | 4 9 0 1 | G 1 0 |
| W ardha | 1 10 0 | 1 10 0 | 3 14 0 | 3 14 0 | 3 14 0 | 3 14 0 | 3 14 0 | 4 2 0 | 4 8 0 | 6 4 0 |
| Fillchpur | 200 | 180 | 180 | 1 12 0 | 180 | 3 10 0 | 4 1 0 | 1 13 0 | 2 4 0 | 3 0 0 |
| Auraiya | 3 4 0 | 3 4 0 | 3 6 0 | 3 6 0 | 3 6 0 | 3 6 0 | 380 | 3 8 0 | 4 0 0 | 4 0 0 |
| Warora | | | | | | | 200 | 4 8 0 | 4 8 0 | 6 4 0 |
| Bhusawal | | | Ì | | | | | 3 12 0 | 4 2 0 | 6 4 0 |
| Rayer | | | | | | | | -3 12 0 | 4 2 0 | 6 4 0 |

Remarks—

(1) Two rates in one and the sam season show comp tition for a part of the season and pool for the rest
(2) All rates below Rs 3 show competition and no pool
(3) No pool was ever formed at Nander
(4) No pool existed at Aurain but the two factories there worked on their own account on the understanding to charge a uniform rate
(1) Note that and long leaves a lattice purples of factories are selected at Aurain Aurain.

⁽a) Notwithstanding increase in the number of factories pressing rates were not increased beyond Rs 4 although pools were for med. The higher pressing rates during the last three seasons were necessitated by abnormal rise in the price of hoops, gunnies and other stores and rise in about charges and the increase in rates did not go to swell the profits of factor; owners

THE BOMBAY COTTON EXCHANGE

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| gail in # | | | | | | | | 4 | , mq | hmedogen | • | Khas | Khandwa | | Jaina | 61 | | Nander | | _ | Parbhani | _ | | Sann |
|--|------------------|---------|------------|-------|--|-----------------------|----------------|------------|--------------------------|----------|----------------|---------------|---------|-------------|----------------------------|-------|--------|--------|----------------|-------------------|---------------------|-------------------------------|-----------|--------|
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(v) Statement showing working of presses at various stations

| Bombay | |
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| | |

| Serson of | No of Presses in Bombry | Pool | No pool | Pool rate | Pressing rate (when no pool) | How many factorics worked |
|--|-------------------------------|------|--|--------------------------------------|--|--|
| 1907 08 1908 09 1909 10 1910 11 1911 12 1912 13 1913 14 1914 15 1915 10 1916 17 | 9 9 9 9 9 9 | Pool | No pool ", ", ", ", ", ", ", ", ", ", ", ", ", | Rs a p 1 8 0 1 8 0 (Part pool) 2 0 0 | Rs 1 p 1 0 0 0 14 0 0 14 0 1 0 0 1 to 1 6 0 1 6 0 | Nine , , , , , , , , , , , , , , , , , , , |

Hubli

| Season of | No of Presses in Hubli | Pool | No pool | Pool rate | Pressing rate (when no pool) | How many factories worked |
|--|--|--|---------|--|------------------------------------|----------------------------------|
| 1907 08 1908 09 1909 10 1910 11 1911 12 1912 13 1913 11 1914 15 1915 16 1916 17 | 9 9 9 9 10 10 10 10 | Paol , , , , , , , , , , , , , , , , , , , | | Rs 7 p 4 0 0 4 0 0 4 0 0 4 0 0 4 0 0 4 0 0 4 0 0 5 9 0 5 9 0 | | Eight , Nine Ten Eight Ten Tren |

Barsi

| Season of | , | No of Presses in Barsi | Pool | Vo pool | Pool rate | Pressing rate (when no pool) | How many factories worl ed |
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Bijapur

| 7 | _ | | | - | | | |
|---|-----------|--------------------------------|------|---------|--|------------------------------------|----------------------------------|
| | Serson of | No of Presses in Bijapur | Pool | No pool | Pool rate | Pressing rate (when no pool) | How many factories worl ed |
| 1907 08 1908 09 1909 10 1910 11 1911 12 1912 13 1913 14 1914 15 1915 16 | | 01 21 21 21 37 37 37 4 4 4 | Pool | | Rs 1 p 3 S 0 3 S 0 3 S 0 3 S 0 3 S 0 3 S 0 3 S 0 4 0 0 5 8 0 | | Two , , Three , Lour |
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THE BOMBAY COTTON EXCHANGE

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Jalgaon

| • Season of | No of Presses in Julgaon | Pool | No pool | Pool rate | Press rato (when no pool) | How many factories worked |
|---|---|--------------------------|---------|--|---------------------------------|---------------------------------|
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Khamgaon

| Season of | No of Presses in Khamgaon | Pool | No pool | Pool rato | Press rato (when no pool) | How many factorics worked |
|--|---|------|---------|--|---------------------------------|---------------------------------|
| 1907 08 1908 09 1909 10 1910 11 1911 12 1912 13 1913 14 1914 15 1915 10 1916 17 | 888888888888888888888888888888888888888 | Pool | No pool | Rs n p 3 10 0 3 10 0 3 10 0 3 10 0 3 10 0 3 10 0 | | Six " |

Dondarcha

| Season of | No of Presses in Dondatcha | Pool | No pool | Pool rate | Pressing rato when no Pool | How many factorics worked |
|---|----------------------------------|------|---------|--|----------------------------------|--|
| 1907 08 1908 09 1909 10 1910 11 1911 12 1912 13 1913 14 1914 15 1916 16 | 0 0 5 0 0 0 0 0 0 0 | Pool | | Rq a p 3 0 0 3 0 0 3 0 0 3 0 0 1 8 0 3 0 0 3 0 0 3 0 0 3 0 0 5 4 0 | (Part pool) | Two '' '' '' '' '' '' '' '' '' '' '' '' '' |

Malkapur

| Season of | No of presses in Malkapur | Pool | No pool | Pool rate | Pressing rato whon no pool | How many factories worl ed |
|---|---------------------------------|------|---------|--|----------------------------------|---|
| 1907 08 1908 09 1909 10 1910 11 1911 12 1912 13 1913 14 1914 15 1916 16 | 0000000000 | Pool | No pool | Rs a p 3 10 0 3 10 0 3 10 0 3 10 0 3 10 0 3 10 0 3 10 0 3 10 0 | Rs n p | Four Three ", Four ", ", ", |

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Nandura

| | Season of | Number of Presserm Nandura | Pool | No pool | Pool rate | Presente v hen no pool | How many factories norled |
|---|-----------|---|-------------------------------|---------|-------------------------|------------------------------|---------------------------------|
| 1907 08 1908 09 1909 10 1910 11 1911 12 1912 13 1913 14 1915 16 1916 17 | • | 2 2 2 2 2 2 2 Romov cd | Pool ", ", to Dhulia | No pool | 3 0 0 3 0 0 3 0 0 3 0 0 | 1'4 a p 2 4 0 3 0 0 | Two |

The alrance in rates during the past three years has been due to the ever increating price of pressing materials. To day the cost of problem, hoops for buling alone cods the press owners Rs. 2.8 per bule a disstance 1 in pressure days.

Where the particulars have been omitted in this lists information is unobtainable records not having been left.

(vi) Statement showing working of ginneries at various stations

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| Scason of | No of Ginning Fictories | Pool | No Pool | Pool rate | Gunning rate | How many factories worled |
|--|-------------------------------|----------------|---------|---|--------------|---------------------------------|
| 1912 13 -1913 14 1914 15 1915 10 1916 17 | 13 14 14 14 | Pool , , , , , | | Rs a p 6 0 0 6 0 0 6 0 0 6 8 0 6 8 0 | | Thirteen |

Bijapur

| | | . * | | | | | |
|--|-----------|-------------------------------|------|---------|------------------------------|---|---------------------------------|
| | Season of | No of Ginning factories | Pool | No pool | Pool rate | Ginning rate | Haw many factories worled |
| 1907 08 1908 09 1908 09 1910 11 1911 12 1912 13 1913 14 1914 15 1915 16 1916 17 | | 8 8 8 | Pool | No pool | Rs n p 11 0 0 14 0 0 16 0 0 | Rs n p 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 | Soven |

Nandura

| Season of | Nandura No of Cins | Pool | No pool | Pool rate | Ginning rate | How meny fretorics worked |
|--|---|----------|-----------------------|-----------|---|---------------------------------|
| 1909 10 1910 11 1911 12 1912 13 1913 14 1914 15 1915 16 1916 17 | 4 | <u>-</u> | No pool " " " " " " " | | Ran p 3 2 0 0 3 2 0 0 3 2 0 0 2 12 0 0 2 12 0 0 2 8 0 0 3 8 0 | lour |

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| (vv) Statement showing working of gunning factories at various stations | 1309 | Fool Rs t p s s s s s s s s s s s s s s s s s | No pool | Cool Real pool Real pool Brain Pool Pool Pool Pool Pool Pool Pool Poo | R. n. P. | Fool Rea p 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Re a P |
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THE BOMBAY COTTON EXCHANGE

| | | | (viii) Stat | Statement | ement showing working | jo | pressing factories | ries at carious | ous stations | *** | | | |
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| 1 | 1905 | 1006 | 1907 | 1008 | 1000 | 1010 | 1011 | 191- | 1913 | 1014 | 1910 | 1916 | 1917 |
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| , Janagadh | Pool Rs 1 p 3 0 0 All working | Pool Bs a p 3 0 0 All Worl lng | No pool Rs a p 2 8 0 | No pool Rs a P 2 0 0 | No pool Its 1 p 2 2 0 | No pool II, 1 p 1 14 0 | Pool Rs a p 8 0 Workine Silent | Poor Be i p 3 3 3 t Worklag Sikat | Pool Rs n p 3 3 3 All working | I ool Rs 1 p 3 3 9 All worling | I ool Bs 1 p 3 3 3 All working | Pool Rs 1 p 3 3 3 All working | Pool Rs 1 D b 8 U |
| Amreli | Pool Rs a p & 6 0 All working | Pool Rs 1 p 2 10 0 All working | Pool Rs a p 2 12 0 All working | Pool Rs a p 2 8 0 All working | Pool Rs 1 p 2 12 0 All working | Pool Re n p 2 12 0 All worl lug | Pool Rs a p 3 0 0 All worl ing | Pool Rs 1 p 3 0 0 All working | Pool Rs u p 3 0 U All working | Pool Rs n p 3 0 0 All nort ing | Pool Rs n p 3 0 0 All working | Pool Rs 1 p 3 0 0 All working | No pool Is a p y g 0 All working |
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THE BOMBAL COTTON EXCHANGE

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(viii) Statement showing working of pressing factories at various stations—continued

| - | 1011 | 1012 | 1013 | 1011 - | 1015 | 1916 | 1917 |
|-----------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|----------------------------|-----------------------------|
| Broach | No pool Rs a p 2 4 0 | No pool Rs a p 2 4 0 | No pool Rs a p 2 0 0 | No pool Rs a p 2 0 0 | No pool Rs a p 2 6 0 | No pool Ra a p 5 0 0 | No pool Rs n p 5 0 0 |
| Bhavnagar | No pool Rs a p 2 0 0 | No pool Rs a p 3 0 0 | No pool Rs a p 2 4 0 | No pool Rs a p 2 8 0 | No pool lks n p 2 8 0 | Pool Rs a p 5 9 0 | Pool Rs n p G 0 0 |
| Hublı | Pool o Rs a p 4 I 0 | Pool Rs a p 4 1 0 | Pool Rs a p 4 I 0 | Pool Ranp 4 I 0 | Pool Rs a p i I 0 | Pool Rs n p 5 9 0 | Pool Rs n p 6 0 0 |
| Akot | | Pool Rsap 310 | Pool Rs a p 3 1 0 | Pool Raap 310 | Pool Rs a p 2 5 0 | Pool Ranp 4 1 0 | Pool Ranp 5120 |
| Amraotı | | No pool Rs a p 3 8 0 | No pool Rs n p 3 8 0 | No pool Rs n p 3 8 0 | No pool Rs n p 2 0 0 | No paol R4 a p 2 8 0 | No pool Its n p 4 0 0 |
| Khamgaon | | Pool Rs a p 2 0 0 | No pool Rs a p 2 0 0 | No pool Rs a p 1 12 0 | Pool Rs a p 2 0 0 | Pool Rs a p 3 li 0 | Pool Raap 590 |

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THE BOMBAY COTTON EXCHANGE

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| | - | 1905 | 1,400 | 1967 | 1908 | 1900 | 1910 | 1101 | 1912 | 1913 | 1914 | 1015 | 1910 | 1917 | 1018 |
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| Karanja Preses | Pressing Rate Pool Norking (Silent | | | Rs 2-1-8 11-15 1 | ns 2-10-0 3 3-5-0 | 2-10-0 Is 3-4-6 Is 3-0-0 1-5-0 , 1-15-0 , 1-15-0 2 2 2 2 1 | Rs 3-2-0 , 1-15-0 1 | Rs 3—0-0 Rs 3—0-0 Rs 2-15-0 Rs 3—1-0 Rs 4—0-0 1, 1-10-0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | Rs 3-0-0 1-10-0 3 | R 2-15-0 | Rs 3—1—0 " 3—1—6 2 | | Rs 5-0-0 1-1,0-6 2 | | |
| Karanja dins | Chin ng Rate Pool Worl ing Slient | - | | R ₂ 4—0-6 1-10-0 6 0 | Rs 4—0-6 1-10-0 1 | Rs 4—0-0 1-10-0 6 0 | Rs 4—1-0 1-10-0 5 1 | Rs 4-1-0 Rs 4-1-6 1-10-0 , 1-10-0 1 1 1 | $\begin{array}{c} \text{Rs 4-1-0} \\ 1-10-0 \\ 5 \\ 1 \end{array} \begin{array}{c} \text{No com} \\ \text{bination} \\ \text{this year} \end{array}$ | No com bination this year | $\left\{\begin{array}{lll} \text{Rs } 4-1-0 & \text{Rs } 1-5-0 \\ \text{, } 1-10-0 & \text{, } 1-10-0 \\ \text{, } 3 & \text{, } 1 \end{array}\right.$ | | ns 4—9-0 ,, 1-10-0 0 | | |
| Aurticapur Pre ses | Presing Rate Pool Working Slient | Rs 1—8-0 0 | Rs 1—8-0 Rs 1—8-0 01-0 01-0 1 0 | t 60.40 61.00 61. | Rs 3—8-5 3—6-0 1 | Ts 3—8-0 | 78 3—8-0 2—0-0 | ns 3-8-0 ns 3-8-0 2-0-0 ' 2-14-0 1 ' 2 | Rs 3—8-0 , 1-14-0 | Rs 3—5-0 3 1-14-(] | Rs 3-12-0 3-0-0 1 | ន្ត | Rs 3—S-0 Rs 3—E-0 Rs 3—12-0 Rs 4—8-0 Rs 9—0-0 , $\frac{1}{1}$ 14-0 $\frac{1}{1}$ 114-0 $\frac{3}{1}$ 114-0 $\frac{3}{1}$ 115 $\frac{2}{1}$ 115 2 | Rs 2—0-0 | g - |
| Murtlz1pur Gins | Ginning Rate Pool Working Silent | Rs 3—0-0 0—8-0 1 | Rs 41-0 | Rs 4-4-0 6-1-0 0 | in 4-4-0 3 | Rs 44-0 2-0-0 6 0 | . 0-11 Ns 1-1-0 O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | ~~ | | | No Combination | nation | | | |
| Jilgao n P re °es | Pressing Rate Pool Working Shent | | | Rs 3—0-0 1-10-0 3 | Ps 2-0-0 0-10-0 3 | Ps 2-0-0 Bs 1-S-0 0-10-0 3 3 4 | Rs | Rs 3—4-6 Rs 3—4-0 Rs 3—5-0 3 2—6-0 2—6-0 2—6-4 4 4 4 4 4 | Rs 3—5-0 2—0-0 4 | Rs 3-8-0 | Rs 3-12-5 | Rs 4—C-0 2—4-0 4 | $\rm R_3 2-8-0 R_3 3-12-5 R_3 4-0-0 R_3 6-0-0 \Gamma_3 C-4-0$, $2-3-0 $ | Ps 6-4-0 2-4-0 3 | |
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(1x) Statement showing working of ginning and pressing factories at carous stations

(x) Further statement showing vorking of pressing factories at various stations

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THE BOYBAY COTTON EXCHANGE

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(xt) Further statement showing working of ginning factories at various stations

THE BOMBAY COTTON EXCHANGE

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The Hon'ble Mr Purshotamdas Thakurdas, MBF, and Mr Hffrejfe Killisty, representatives of the Bombay Cotton Exchange, called and examined.

4706 (President) Mr Pursholamidas Thalurdas—I think that there has been a deterioration in cotton in recent years. The deterioration has been marked in districts which grow long staple cotton. There has been a steady deterioration due to the temptation to the middlemen to mix short staple cotton with long staple. The parts that have been most affected are Broach, Surat, a portion of Kathawar and the whole of the Nizun's Dominions more or less. I think the deterioration had been serious. What I have quoted in my written of idence shows the change that has come about between 1906 and 1917. In 1906 Mr Fletcher said "I have never seen a field that contained more varieties of cotton than one." In 1917, the admixture in Broach cotton amounted to half and half. In some parts of the Broach district, the proportion of short staple amounts to as much as sixty per cent. As far as finiving in the field is concerned it was not half as had in 1906 as it is now. The quality of the Broach crop was decidedly better than it has been during the last five years. The Broach crop of 1905 06 as compared with Broach of to day was something like Surtee of to day. As a matter of fact, since 1911, I have had to male a new type—my type is B. U.C.—for the present growth of Broach. Broach cotton of late years is so low in staple that it can not possibly be sold on the old type harring of course small quantities which my agent solveds and keeps and gins and preries separately.

old type, barring of course small quantities which my agent selects and keeps and gins and prer es separately 4797. I am in favour of agricultural banks as supplementary to so operative societies. Co operative societies. 497 I am in the one of a content of the state of the stat condition his orop matures and the Government dues have to be pud Relief Act and, in the tracts to which that applies, a contions sahular will not give any advance on standing crops indeed by gets possession of it. The result is that the root has to sell his stuff at the rote that is offered to him at the moment. He cannot hold out and so be goes to the sahular and the result is that the heavy interest charges knock off a big slice from the price. Until something is done to help the ryot in that direction, I am afraid his condition is ill never improve. In spite of the high range of rates that his been given for his produce during the last few years he has not been able to held out. I have not thought out the details of the agricultural banks. The eccurity for loans would be the same as the scenarity for Government dies. That is why Isay that Government alone can do it and that private banks cannot do it. The procedure for the procedure for the procedure of the procedure for the procedure of the procedure of the procedure for the procedure of the procedure of the procedure for the procedure of the procedure of the procedure for the procedure of the procedure of the procedure for the procedure of the procedure of the procedure for the procedure of the recovery would be the same as that for recovery of arears of land revenue. If the bank is a Government bank it comes to the same thing as if Government were recovering their own dues. Of course, this will limit the amount of the lean to each individual to the extent of the value of the standing crop. What is good enough for the sahular is much better for the Government. The same difficulty existed in America before they started What is good enough agricultural banks, there also the cultivator was helpless. I have not heard of the fate of the Tayptian bank I am in favour of a considerable development of the co-operative movement as rapidly as possible but I am afraid that the development of co-operation is rather a slow process. The best men in the districts are not in the co-operative movement. The popular idea is that it attracts the best intellects but I am sorry to differ the co overstive movement They are not in it for various reasons, one is that they do not want to be responsible for the actors. They have not sufficient voice. But that is a matter which is more for co operative people. from that tions of others The real position is that the financing of the root is very unsatisfactory I should like agricul tural banks and co operative societies to develop side by side

4798 As to the quest on of forecasts, they are better now than they used to be sometime back but they are not as good as they should be. The reason for that is that the people in the districts are not sufficiently interested in the matter. The Government have not jet succeeded in interesting the middlemen and the cultivators. I would very much like them to be interested by issuing these forecasts in the variability of far as the districts are concerned and by distributing them and asling the middlemen and the cultivators to compare the forecast with actual results. I am also anxious that the method of collecting the figures should be more on American lines. I do not know how things are done at present. I think the people who are asked to report should be asked to report facts and not their own opinious and from these facts the necessary inferences should be diawn by the head of the Department.

be drawn by the head of the Department
4799 As to the cotton pressing returns, they are absolutely worthless. They are very incomplete.

In the month ending 31st October 1917, the total quantity pressed in Breach is put do in as 57,760 bales and the total quantity received in Bombay from Brough till October 1917 is 77 706 bales. There is therefore a difference of 20,000 bales between the press returns and the actual arrivals. Then the despatches by rail to centres his Alimedabid where there are mills have not been taken into consideration. They are bound to be incomplete, if the Government cannot manage to get complete returns, their publication is worse than useless. I am therefore in favour of making submission of returns from press owners compulsory.

4800 I am not in favour of the publication of prices of good Broadi ection in up country markets. If it is decided to publish them, they should not be published without the checks that I have mentioned in my written evidence.

4801 (Mr Wadia) There is a big shortage of long staple cotton in India and the demand is increasing from year to year. Japan is going in for staple cotton now, and the Bombay mills are scrambling for it. They have been going more for finer counts since the outbreak of the war than they did before. Mills now send buyers up country under the impression that if they do so, they will get pure stuff. I do not know how far these men succeed in getting pure stuff. They have to take steps which they used not to take before. The cotton that is coming to Bombay now is coming in in a more inved condition that it used to do. The growth of short staple cotton in long staple cotton districts is increasing. It is certainly the case that the crop has deteriorated because more short staple stuff has been introduced in the districts which grow longer staple cotton and there is therefore the more temptation to the middlemen to mix. I have stated in my written evidence that short staple cotton is replacing long staple in Kathiawar. Long staple in Kathiawar is steadily decreasing. Mathio has replaced the long staple in some parts of Kathiawar, so that there is no complaint there about mixing.

4802 I think that, during the last fix oxers, the premium paid for long staple cotton has been fairly ade quate. Looking at the differences between short staple and long staple, this difference has widened very much in fax our of the long staple during the last five years. Once the whole crop is short staple, as it is bound to be in course of time if it is not checked and as his already happened in the case of mathio, then the range of prices will at once fall to the price available for the short staple stuff. I do not think that it would be sound policy for the Agricultural Department to give out short staple seed. I think that what the Agricultural Department should do is to persuade the cultivators to go in for the long-staple seed and to give them

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facilities for ginning and marketing the long staple cotton separately and the trade would respond that the trade will pay and has paid during the list five years the necessary premium to male it worth while to grow long staple cotton. The whole difficulty is that it should be kept pure. That can be done in present conditions by the influence of the Agricultural Department, if the Agricultural Department has an adequate number of superior staff who take an interest in the cultivators' affairs and persuade them that if they grow long staple cotton, keep it separately and market it separately, then they will get the necessary primining for it, they will get that premium and will keep on getting it. The best test of that is what has happened in the Surat district I have described this in my written evidence The Agricultural Inspector there has been in very close touch with the cultivators and these cultivators have continued to grow the farm seed The pro duce is brought pure to the gins and the buyers have always pad them five per cent extra The short staple seed, which is known in Broach as goghan seed, must be stopped totally by Government. If the short staple seed, which is known in Broach as gogham seed, must be stopped totally by Government cotton is marketed separately, there will very seen be a plethora of short staple staff and the result will be the same as with mathic I am, therefore, of opinion that the Agricultural Department should not, as far as pos sible give out seed of short staple cotton because in the long run such a policy would be fatal to the cultivators; though they may temporarily get what look like bigger prices. The comparison between the prices of short staple and long staple as given by the Director of Agriculture in the Central Provinces, appears to be for a tract in which long staple cotton is not the indigenous product of the district but has been introduced into a tract which has been growing ordinary fair staple. I do not know how the comparison would work out for a tract but that But I have worked it out in districts like Bronch and Surat and even in the Arzam's Dominions and the apparent benefit to the cultivator for growing short staple there is due, as I have said, to the high price that he gots for the short staple staff because the middleman can mix it with the long staple. I have no wish to change the whole of India mto a long staple cotton tract. Rescum has been introduced recently but it is pretty close to the old fur stuple Comra seed—not the new but the old one. The deterioration from the old ordinary Khamgaon Akola seed to reseum is not so marked but the deterioration from the old bani (gkat) Lapas to rescum is very marked

4803 I am very strongly of opinion that there should be a logal prohibition of the transport of lagas 4803 I am very strongly of opinion that there should be a legal prohibition of the transport of lajas by rail from one district to another. There is absolutely no necessity for lapas or seed cotton transport. Every district has got a ginning factory which makes it unnecessity for the lapas to be carried from one district to the other. I admit that there may be stray cases of lapas being carried by earts from one district to another but the middleman up country does it only up to a certain distance. A man might transport lapas from Agra to Broach but that is not a thing that an ordinary middleman would do. Profit bition would prevent lapas being carried from Bengal to Hubbi or of mathic coming to Broach by sea. That is a flagrant misuse of the transport facilities. My point is that the bulk of the worst mixing would be stopped if transport by rail and sea were prohibited and that the trouble arising from transport by early would not be segreat. This could be looked after by the local committees which I have suggested. I have a copy of the notification issued by the Nizam's Government very lately under which damping has been in ide officer in charge thought that was not a very easy matter.

officer in charge thought that was not a very easy matter

4804 I have referred in my written evidence to the extravagant and fraudulent mixing of Punjab American with deshi Sind Punjab The difficulty is that Punjab American is very badly mixed with the deshi short staple stuff which is known here as Sind Punjab eotton Punjab American in over been put on the market as a separate article. I have seen some that was much less mixed than what is obtainable in the market I would not say that I have seen it absolutely pure—I won't say that I could tell exactly the percentage of mixture in the cotton—When the mixture differs by ten per cent more or less one could value the cotton and say that this lot was better steple than that—I have handled Punjib American—It would be very difficult to say what the exact percentage of mixture was but it is not very difficult to say that one lot is more mixed than another I am always able to say whether a lot is up to the standard of the sample bale or not Allowance has been as high as Rs 50 to 60 per khand: The allowance was for staple and not for class

4805 There is no class for Punjab American but we mane the stations from a line totton should be described to be tenderable against Sind Punjab. The presumption is that Punjab American comes from stations be Punjab. We go on revising these stations from time to time. If you look up the rules for five years, the number of stations was much smaller then than it is to day. We should be prepared to male a patched to be tenderable against Sind Punjab in the Punjab back, the number of stations was much smaller then than it is to day separate class for stations in the Punjab Inclusion of stations is bised on the f et that there is a press at the

station

4806 In order to prevent mixing and adulteration my suggestion is that factories should be beensed. The penalty would be the withdrawal of the beense for persistent and fruidulent mixing and for any scrious Whether the beense should be withdrawn after the first offence or not would depend on the nature of that offence. If the first offence was of a serious nature, I would not heart to to withdraw the heener It would all depend on the recommendation of the local committee. They would make recommendations to the central committee in Bombay when would make the final recommendations to Government. I would like the central committee to be a purely advisory body. but I would not like the Government to take any action independently of the recommendations of the central What I suggest is that Government should take action on the recommendations of the central committee oommittee just as they let on the recommendation of Commissioners and Collectors
1807 There are certain districts where the weights used are had but there

1807 There are certain districts where the weights used are bad but there are others where the ryot looks after lumself. A great deal depends on the intelligence of the cultivator. I would make it a condition of licensing that standard weights should be used. There would be no objection to that at all. Here in Colaba we have standard weights, similarly in Breach, Surat and Khandesh. I have experience of weigh bridges. Weighbridges are more convenient when the receipts are large. Weighing by ordinary scales takes more time. When a man wants to cheat, either weighbridge or scale is good enough for lum and bad

enough for the unintelligent cultivator

4808 As to the mixing of lapas with cotton by throwing it over the gin, it is quite possible that that happens accidentally but one can always make out whether it is deliberate or not. If it sidone deliberately one finds it all through a let, in every layer of the bale, if it is recidental, you find it in a ten bales in hundred. Night ginning is nearly always bad. I have seen that many own factories. As to the suggestion which has been made to the Committee that a board should be put up in front of the relicis about two feet high which could be easily taken off for the purpose of adjusting the knives, I think that would help very materially but I do not know what would happen to the woman sitting on the platform. That would prevent the chance of accidental mixing. The layers and the lint platforms are very narrow but, in issuing heenses, I would make it a condition in the oase of new factories that these platforms should be made wider. I would not impose such conditions as would make giming factories more costly than one can help at any rate, I would not insist on any change or any material alteration in the construction of the gimieries. What we require is that precautions should be taken in the shape of local committees to look after these things. I have ordered out one of these roller gims with automatic feeder attached. It has not yet come. I am expecting it in March next, if all goes well. If any thing could be done in that direction, it would mean a great saving of labour as it would reduce the cost of guining and would also prevent the great rush that takes place in a good season.

4809. I have stated in my uption explanes that rocks are not determined to the extraction.

great rush that takes place in a good season

4809 I have stated in my written evidence that pools are not detrunental to the interests of the cultiva
tors and that the prices charged for both ginning and pressing are reasonable. On the whole, though there
may be some very bad cases where pools are very continuous, the charges are reasonable. A charge of Re 7
for pressing is really high. As long as the pools confine themselves to reasonable rates such as Rs 4 to Rs 6,
nobody has any ground for complaint. But when they charge high rates, so much profit comes out of the
pooket of the cultivators. When the rate goes beyond Rs 6, I would call it high, for pre-war days. A case
such as that mentioned from the Punjab m which they have been charging Rs 9 8 and paying Rs 3 8 to the
pool, I should call had. My remedy for that would be that these people should be told the first very that if
they charged anything over Rs 6, their factories would not be heened. I would give the central board the
power of fixing a maximum. I would not wait for complaints. It would be the duty of the board to keep
themselves informed of what was being charged in the districts. There would be representatives of hading
inus on the board. I would tell factory owners that unless they came down to a reasonable rate, their factories would not be allowed to work, they would not get a hierase. I do not know from what point of view
pools can be held to be a blessing in disguise to the cultivator. When there is a pool and the rate is a reason
able one, the pool goes on for two or three years, but at the ond of two or three years, the members usually
manage to fall out amongst themselves. Then they work at actual cost or a little less. So that the average of
these four years works out very nearly to the rate of ginning and pre-sing factories which are not in pools. I
have not heard of any mistances in which high pool rates have been used to enable higher prices to be paid to
the cultivator for his cotton.

4810 I advocate a very large increase in the staff of the Agricultural Dipartment both European and Indian, but I attach more importance to an increase in the Indian staff as I think they carry more influence with the cultivators—Better posts should be offered to Indians—Until sufficient Indian staff can be obtained, I have no objection to the importation of botanists, entomologists, etc., from England, but I would prefer the appointment of Indians as I think their influence especially with the cultivators up country would be much greater

4811 I am absolutely opposed to any sort of export duty on cotton. I think the question was referred to us in 1914 not as a question of export duty but as a small duty for the benefit of the City Improvement. Trust. The City Improvement Trust wanted funds and the Minicipality suggested to the Government that all cotton export from Bomb by should be taxed four anness a bale. The Government referred the question to us for opinion. Although a duty of four anness a bale lools a trifling thing in the case of an article like cotton which fluctuates hundred of rupees in a secson, the I vehange opposed it very strongly on principle. If you put a duty on the quantity of cotton that is exported, what is gained by the public exchequer is restricted to export only, but the cultivator loses on the whole crop. Take Indian cotton for instance, roughly, the total produce is 60 lakks of bales of which 20 lakks are exported. Supposing a duty of 185 per bale is imposed then on 20 lakks of bales, the public exchaquer gets a crore, but I say that the cultivator will lose three crores because the only competitor in the local markets with the local consumers is the exporter and the price of the local crop will be settled on the price that the exporter can pay for the surplus product. Thus the ryots that grow cotton will have to pay something in addition to what other cultivators pay. An export duty is there equivalent to an increase in the assessment on cotton land. If cotton does not pay owing to an export duty they will take to something else. I am strongly against an export duty, at any rate until India is able to consume minety per cent of what she grows herself.

consume ninety per cent of what she grows herself

4812 (Mr Hodgkinson) I am not in favour of exotic seed being tried in India I think Punjab American
has more or less come to stay I cannot say whether Punjab American is an exotic cotton because I do not
know its lustory but there is canal irrigation in the Punjab and with that the climatic draw backs to exotic
seed more or less disappear Cambodia has also come to stay I think it ought to be pushed in tracts in
which the conditions are similar to those of the tracts in which it is grown at present

which the conditions are similar to those of the tracts in which it is grown at present

4813. If the trade get pure stuff, they do pay a promium for it. Mixing goes on because when the crop is marketed, the cultivator is not able to hold out, he must sell what he has got at once. He puts both long and short staple on the market and the middleman tries to get both as the phy is possible. The next thing that the middleman does is to mix the two. It is a very short sighted policy. The middleman himself loses by it in the long run. If the cultivator were able to get advances from the bank on his long staple crop and hold it for a bit, he would get the proper price for it. But the poor fellow must sell. He must sell to pay up the Government revenues and his dues to the sahukar. The whole point is that when Laverpool bins long staple cotten from a person, it buys it from a man who is in a strong position to hold it. I have shipped ordinary Navsari pure to I respect and I have been offered a penny over the American rate. I refused to sell at a lover rate and when I hold out they paid me my price. If the cultivators were in the same position as a strong inini, I am sure they would take full prices from the mull owners. Supposing an exporting time took cotten to Liverpool and put it on the market and held it up saying that they were not in a hurry to sell if they did not get their price for it, then they would be sure to get what they wanted under similar conditions. Put the cultivator in the same position, and you will see the result. The purer stuff you put on the market, the better position you are in to hold out and the bigger will be the premium. In a place like Liverpool, if you send anything a little mixed, the difference in price is enformous in favour of the purer stuff. The Bombay mill owners would pay a bigger premium if the other party were in a position to demand it. You cannot compare the Bombay mill owners with the helpless ryet who has to sell his stuff as soon as it is ready. The middleman is not out f

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short staple and stiel to his long stiple. He must be financed by co operative societies and by Government because it will be profitable to Covernment in the long run

4814 I think the present system of trade classification is quite good and I do not see any way in which simplification would help the trade materially

4815 I suggest that there should be legal prohibition on sending even half pressed bales from one district to another I nily pressed bales should not be allowed to be rebooked in ordinary course. Wyangaum is a station in the Broach district, fully pressed bales are booked from there to Naysiri and then rebooked from Navsari to Bombay It is sold here as Navsari All this rebooking of cotton from one station to another should be prohibited and the rest would be done by the name of the press which should be stamped on the flat of the bales I would make it compulsory to bave the name of a press stamped on the flat of each bale

4816 Nominally there is a mutual allowance clause in both the Liverpool and Breinen contracts. I have shipped cotton on the mutual arbitration clause and find that they are very stiff about giving "on" allowances. They act on it simply to protect themselves. They never act on it with the idea of giving the seller points. They act on it simply to protect themselves They never act on it with the idea of giving the seller points "on" That is the case both in Bremen and Liverpool I do not think the mutual allowances clause would work here because exporters would not have it if they were made to pay the "on" allowance I personally attach no importance to the mutual allowance clause

4817 I have not tried saw gins in any district except at Dhawai but I heard from other people that they have not been a success. They have fuled with cotton of short or fur staple but I do not see why they afford a standard of the standar should not succeed with longer stuple cotton, such as Punjab American or Cambodia. I am convinced that they would not succeed with short or fair staple. Saw gins at present are the only gins which are expuble of being fitted with automatic feeders. I have experience of saw gins at Gidag, Hubh and Dharwar

4818 (Mr Roberts) My point is that when the Department and the cultivator grow the short staple cotton, as long as there is enough long staple cotton to mix with the short, the effect of the deterioration on prices is not felt as the buyer pays more or less tho same price for both but that ultimately when the long staple cotton disappears, the cultivator will suffer. As to whether, in Khandesh, where the Agricultural Department is putting out short staple stuff called N R, after satisfying itself that the yield and ginning percentage are better than that of the cotton which is ordinarily grown in Khandesh, the policy followed is a sound one, here, as I said before, you are taking an instance in which the normal growth has been of fair staple or short I am talking of eases in which the normal growth has been long staple and where short staple is ntroduced. It is an open question—I have not gone into it—whether in districts like Khandesh, being introduced it would pay to introduce long staple cotton and whether it would be more to the benefit of the cultivator to have long staple cotton in preference to the ordinary short staple giow the of the district. I do not knew how long staple cotton would stand the climate conditions of the district. In this particular case, the tendency at present is to put out a shorter staple cotton than anything that is grown there. It is a uniform short staple cotton the staple of which is the shortest in the mixture and even shorter than what could be called the deshi cotton of the district. I do not think that should be encouraged. The policy should be to work up to longest staple desh: cetton of the district and not to give preference to the shorter staple. I submit that if the figures are worked out, the profit on the shorter staple growths would not be greater than those on the better staple growths. As regards valuation, the comparison should not be between uniform short staple and investigations. The whole point is that the long and short staple but between uniform short staple and uniform fair staple For a mixture, one pays the trade wants something even, it should be even long or even fun or even short price of the worst cotton in the mixture. As far as roseum is concerned, I think it is pretty close to the fur staple growth of Berars—as far as N R in Khandesh is concerned, I have not been able to go into details If the figures showed that uniform short staple cotton was more profitable than uniform fair staple, then no one could say that it would be in the cultivators' interests to put out fair staple cotton but I doubt if the figures would prove that Provided that a pure strain of each were talen and the figures were gone into thoroughly, I think it would be found that the medium staple cotton would pay better than the short and that the long staple would pay better than either I would omphasize this for every truet that grows staple cotton Keep up the long and medium staple in preference to the shorter staple. In the Surat and Broach truets, it is true that the shorter staple crop in an ordinary mail et gives a better price than the longer staple but that is because they have got the longer staple to mix with it

4819 Buyers up country do not go by stations—It is Bombay which goes by stations—In up country markets, it is not only the agents of Bombay firms and mills who are buying but there are also local mills, as to whether much nursing is done by cultivators or by middleman, my own experience is that the worst mixing is done by the middleu au up country. He is more responsible than the cultivator and the only responsibility is far is Bomb ty mills are concerned may be that they may not have sufficiently experienced shrewd men of business buying for them. Punjab American is very bidly mixed. It all shows mixture more or less—some of it up to twenty per cent and some as bid as screnty per cent. That was two years ago. It was only American in name. I have seen some this year and list year. List year; there was a decided improvement on the year before. About this year I could not say, I have not seen much till new. Very little has come here this year. I have only seen some samples. We quote for Punjab American if we are asked to do so. We have not been putting it in our usual price lasts is it is not current, i.e., it is not a thing that needle deal are deal.

that people deal very day. We should be quite willing to do so
4820 I am not absolutely opposed to the posting of prices up country but if it is done, it must be done with considerable care The price of the right grade must be published. It is no use quoting Breach, or Khandesh in the Lunjab As I say to the people who advocate that, it would be absolutely misleading

4821 I do not think that it would be difficult to get a quotation for Punjab American in Bombay you asked the Cotton Trade Association or the Cotton Exchange about it, they would be willing to give it Provided the grade were the same, there would be no objection to pubbshing the Bombay price of this variety. The quotation for Punjab American would have to be for pure stuff, and if necessary for mixture up to a certain percentage.

4822 At present there is no very intimate touch between the Bombay and the up country markets where the greatest mixing goes on. I was wondering whether such a committee as line been suggested would be able to do something in this respect by educating up country markets and by informing bombay of vival was going on up country. The committee would perhaps bring to the notice of the buyers the ginning and pressing factories in which the worst mixing took place because they would have the information at hand It would also keep the up country markets informed of the prices provading in Boinbia. I do not know in what other direction the committee could be expected to help. The committee would be a good link

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between the up country market and Bombry, the distributing market, a chain that would not involve undue interference from Government officers who do not know much of the trade

4823 In 1910 and 1911, there was very much damping in I tawah and Chandausi and I believe it continues o still I think we bought there last year—Damping by cultivators is still done up to 25 per cent and in there still some cases more

4824 Mr Heerjee Khetsay —Buyers also damp cotton hopelessly Damping by cultivators as well as by buyers should be provented. In the Berus and Khandesh too, dumping is done by a hope pipe. The suggested committee would be able to put a check on this and would not allow this sort of thing to go on
4825 Mr Purshotandas Thakurdas —I am afraid damping is so general that it is very difficult to find

any body pressing without damping It is general enough not to allow of any distinction being made-almost

every body does it
4826 I think the Divisional Superintendent of Agriculture in the Northern Division has got certain groups of cultivators who sow the seed that is grown on the Survi farm IIe distributes the seed to them, I am told, and be goes round during the mensoon months and takes care that no other seed is sown Ho keeps a record of it and of how much seed ouch cultivator took

Ho tells no some time in October or so that he expects so
many bales as the outturn from these operations. I write and say that I undertal e to buy them at a certain

I write and say that I undertal e to buy them at a certain premium—say five per cent above the price ruling in Surit on any day. Whenever the cultivators want to sell, they go to lum and he wires to me or tells my igent at Surit. The premium is fixed on the basis of the price rubing in Surat that day I sell the cotton simult inconsly to local mills. I have made a point never to sell it to an exporter because then I would not get reports is to strength and outturn. I buy ginned cotton When the kapas is ready, it is carted to my ginning factory where I think the Agricultural Department posts When the kapas is relay, it is carted to in finning factory where I think the Agricultural Department posts one of its elorks with a record that so and so has been given so many invanids of seed out of which the kapas outturn was so much, so that the cultivator elimint put in any inferior growth. If there is a better outturn, the cultivator gets the benefit of it. If it is bad, he loses. I take the cetton at any time the cultivators bring it. This year they sold it at Rs. 672. Since then the market has gone up to Rs. 752. I buy ginned cotton but it is ginned in my factory to ensure that there is no mixture. The cultivator is paid on the basis of ginned cotton. As far as I am concerned, there is no limit to the quantity that I am prepared to buy but I understand that there is a limit to the quantity that the Divisional Inspector can get grown under his supervision. I have been asking the Divisional Inspector to up a new more. He says that he has not get I have been asking the Divisional Inspector to give me more. He says that he has not get the after a larger area. It is not a question of the distribution of seed only but of looking after the supervision staff to look after a larger area oon If he were given more staff he says he could grow more cotton. A thousand acres

Every year they give me about 600 bales. I thind it has paid the cultivators very well fields in the mensoon A thousand acres is not very much I understand one year more cultivators offered to grow the cotton but he could not get the staff to inspect when the marketing was going on, they brought in not only the produce of that seed but the produce of the ordinary seed. The Syndicate was then isked to pry a premium on 15 000 bales instead of 4 000 bales. The figures of Government and the Syndicate differed but the cultivators claimed a premium for a much larger quantity than was justified by the seed issued from the Government farm. Therefore I am invited that the What happened some years buck was that people took the seed and there was no supervison quantity than was justified by the seed issued from the Government farm. Therefore I am inviews that the Divisional Inspector should not have a bigger are than he can comfortably look after. Kapas grown from the farm seed cannot be mistaken. Aapas grown from the farm seed can be in ide out from the other lapus which has got a bluish tinge about it by the mero sight of it. Until the staff has been materially increased and consists of rehable men who are not only intelligent but of a superior class and have influence with the cultivators, further advance cannot be in ide. Once or twice I have happened to have some differences, once the cultivators started their tricks and tried to give me briefs with the laps. I protested very strongly and said I would not give them the five per cent extra - Just at that time the Divisional Inspector happened to be ill and the matter came to a scrious difference of opinion but afterwards the whole thing was settled. I want officers who have influence with the cultivators. It is not a nork which can be done by ordinary inspectors I want a superior type of men

4827 The question of having four or five cotton experts paid by the Associations to do nothing clse but arbitration is one which has been mooted in Bombay for a very long time the arbitrators were well paid, it would not be possible to get the best men I personally think that unless I do not know that even for Rs 2,000 a month, you could get a man who would be in touch with the tride and would command sufficient No one is in botter touch with the trade than the merchant here. No one is better fitted oxpert knowledge than a man who is interested in the tride I am not in favour of official arbitrators who might know all about cotton before they are appointed but who, as soon as they were selected, would not keep in touch with the trade at all. As a shipper I know the Bremen system, I know what they want, how they arbitrate and what sort of illowances they give and how they handle ip certain shippers. I do not think that they are numbers in their allowances, I think as fir as we are concerned Liverpool is stricter. If two equal lots were similt ine ously shipped, one would see at once that Liverpool would entit to the very fixest point. I think Bremen is a little slack—that is my experience It is quite possible that somebody else s experience may have been different Bremen is more uniform in this way that one does not have disappointments in the way of consignments arbitrated upon turning out to be much worse than one expected. In Liverpool different people arbitrate and so it is possible to get personal differences in awards. But in Liverpool there is an appeal Committee which is more or less uniform in its wards In ease of any dissitisfaction with the arbitration, we appeal to the Appeal Committee which is a standing body and no always expect the Appeal Committee to be uniform in its decisions

4828 At the anctions at Lyallpur and other places in the Punjab, the cotton is sold to the man who bids the highest for it whother it is the consumer or the merchant. Don't you think that it is a very wrong policy to sell pure stuff to a person who may use it afterwards for mixing purposes? Suppose there is competition between a dealer and a mill owner. The mill owner is only prepared to pay up to Rs 750. The dealer with a view to mixing the cotton with lower grades may go up to Rs 775. Why do you put a weapon in the hands of a dealer for the sake of a paltry of Rs 25 in preference to giving the cotton to one who would consume it and would be a buyer on a bigger scale next year? The middleman would bny presumably to mix it. As to whether agents of spinning and year mg mills mix at the time of pressing. There are experient As to whether agents of spinning and weaving mills mix at the time of pressing, I have no experi If the mills mix up country, then it is hopeless and all your labours are not of much avail but I beg to submit that that may be an exception—I do not think it can be said that mill buyers up country mix there at the time of pressing—I say that these growths should not be said to anybody but to the actual consumers and the enthusiasm of the mill owners should be judged by the price they pay—If the reserve fixed at the auction is Rs 500 or Rs 520 and if you get an offer of Rs 525 from a mill owner ind one of Rs 550 from a

Mr TATTI NARANJI

dealer, I should give the cotton to the mill owner If you allow it to go into the hands of middlemen you simply put more temptation to mix in their way. As long as there is short staple grown in any district, you will have middlemen who will offer you a better price than the actual mill consumers. It generally is not the intention of middleman to put the purer stuff on the market. I am particularly tempted to put this on record because when the Agricultural Department left this Surat Farm business to me, two local dealers approached the Divisional Inspector and said that if my firm offered five per cent they would give six per cent. The Divisional Inspector told me so and asked me if I would offer six I told him that I offered five per cent. and that I would send the cotton pure to the mills and that the dealers offered six per cent because they wanted to mix it

Mr LALJI NARANJI of Messrs. Mooljee Jaitha & Co, Bombay

Examined at Bomban, January 30th, 1918

Wrillen statement

4829 Preamble -I am solely managing Messrs Mooljee Jaitha and Company's affairs, which firm are agents of the Khandesh Spinning and Werving Mills Company, Limited, and of the New East India Press Company, Limited, owning several ginning and pressing factories in Khandesh, Berur, Bursi and other districts and cotton pelhas at Colaba and commanding large cotton business in various cotton districts. I am senior partner in the firm of Lulii Murrii and Company who are Secretaries, Treasurers and Agents to the Jam Shri Ranjitsinghji Spinning and Weaving Mills Company, Limited

(2) I had the honour of giving evidence before the Indian Industrial Commission in November last In my written evidence to the Commission, I had referred among other things to financing of cotton in an Much less been said and written about cultivation of cotton, its improvement, etc India organized way stands next to America in production of cotton and as such it is necessary that best efforts he made to increase

the quantity and quality of cotton

- 4830 The present system of cultivating cotton and suggestions for improvement -I would first alludo to the prevalent system of sowing cotton seed in vogue with cultivators and their inviety to have produce soon. The cultivators sow cotton seed of short stepled cotton as is hereditary with them on the same lines as was done many years past without any two to improvement of soil manure mode of sowing, etc. In many cases they are not at fault, as better seed of long stapled cotton is not available to them, and even if made available. they are not sanguine as to what price they would realize when their commodity comes to be sold. In order to improve the quality of cotton and made the cultivators participators in the profit I would made the following accommendations or suggestions '-
- (1) As cotton requires to be financed to a large extent and in an organized way, I consider the advisability of living Trude Guilds or Trusts as exist in Europe and America should be considered Government en couragement is necessary for starting such Guilds in the following ways
 - (a) To aid cultivators financially when they commence sowing operations by previding them with good uniform seed through the agency of district officers

(b) To make such laws as shall make it compulsory for cultivators of particular districts to berrow funds or money where such Guilds operate

- (c) Guilds or Trusts to operate in particular districts to be settled by Government No other Guilds to be allowed to be started in such districts (d) To supply such Guilds with lists of different villages with names of cultivators who grew cotton
- (c) Guilds to supply every reasonable need of the cultivators from the commencement of sowing cotton till the crops are sold, in the shape of supplying good seeds at cheapest price, good implements and manure and to secure good prices for their crop at the opportune time
- (f) This will enable Government to control all produce of cotton on any energency arising, such as war and similar other unforeseen circumstances
- (g) If one third of the funds required for fin income cotton, be rused by such Guilds, two thirds to be provided by Government through co operative or Government fed hands
- (h) Guilds to be bound to finance cultivators and cultivators to be bound to get all produce sold through such Guilds Both to be bound to each other under legal obligations
- (t) The Guilds to serve the purpose of a hureau or depôt to supply every information regarding their produce to their constituents
- (1) Government to confirm appointments of Directors elected by the Guilds and accounts to be audited
- by Government or certified auditors
 (1) Guilds to have their representatives in Japan, the Continent and Liverpool, which are principal consumers of Indian cotton
- (I) Guilds of different provinces to have one central location, where general information pertaining differ ent guilds could be available
- (m) Representatives in Jupui, the Continent and Liverpool to be appointed jointly by different Guilds of different provinces
- (n) Reasonable commission to be payable to Guilds to be fixed after providing for all working costs, such as establishment, etc
- (o) Cap tal would be forthcoming from each district without any difficulty if the Guilds be under Gov ernment support
- (2) To persuade cultivators to adapt themselves to improved methods of sewing long stapled cotton, it is necessary that following facilities be afforded to them
 - i) Government through Guilds to provide seed for sowing long stapled cotton
 - (b) Cultivators being averse to change their primitive method of short stapled cotton, the Guild to
 - gurrantee them the meme which they usually get by sale of short stapled cotton

 (c) The land loses its power when produce is got out of it from year to year without its being properly turned and manured. In such cases, cultivators should be pointed out the best methods to adopt by a scientific export whose business would be to approach cultivators and show them practically the improvements which ultimately will lead to their advantage

[Continued.

(d) Cotton—the produce of land of oultivators—is secured by Agents of export houses before it is pieled from fields. In such cases the cultivators get much less than what they would get if piel ed from fields they were to take advantage of the Trusts or Guilds proposed by me

(e) The cultivators to get advances on security of cotton at reasonable rates of interest compared to heavy rates which the sahulars or shroffs charge them

(f) The Guild to educate cultivators' class in elementary education by easy method so as to make them understand the transactions of cotton which they entrust to the Guild for sale and receive advances against same and for their general advancement

(g) Ginning arrangements to be made by the Guild to gin lapas of cultivators by creeting ginning factories or availing of the ginning factories already existing in the cotton producing districts to swo cartage, labour, etc Ginned'ootton will bring them better prices for their produce compared to sales of Lapas or raw cotton

(h) Guild to correspond with Railway Companies and induce them in the interest of cotton trade to

give facilities for transport of cotton and that too at very farourable freight rates

(1) Statistics of cotton produced and consumed in several countries of the world be published and circulated in vernacular in each district by the Guilds Probable average and probable ferti lizings of different districts also be made known to them

4831 Adulteration and damping of cotton - Much is made of watering of cotton for purposes of adultera tion and the fault is laid at the doors of the cultivators The cultivators are in no way to be blamed in this It is the middlemen who buy lapas at cheap rates from the oultivators and take it for being ginned and pressed into bales These middlemen in order to serve their own interest admix cotton and get the bales If ginning facilities be afforded to cultivators and their cotton ginned and pressed by Guilds' agency, this adulteration would be prevented and profit would ultimately go to oultivators

4832 Conclusion —I have expressed my views as above both in the interest of cultivators and trade Government would be pleased to give the cotton schemo encouragement in the lines suggested by me, or other improved methods through the Agricultural Department and co operative or Government fell banks, the condition of cultivators would be greatly improved. A scheme on workable lines could then be drawn up with all its various details

Mi LAIJI NARANJI called and examined

4833 (Mr Wadia) I am Manager of Messrs Mooli Jetha and Co., Owning Mill and Presses and dealing in cotton In addition to spinning and wearing mill, we have get ten giming factories and eight presses mostly in Klandesh and Bear. We have one pressing factory at Barsi and one pressing factory in Gujarat. We have also got a jetha (store) here at Colaba where we store cotton for our constituents. I am agent of the Jam Sii Ranjitsinji Mills at Sholapin. For the Sholapin mills, we shay Nander and Publiani cottons from the in cotton mostly in Kliandesh and Beiar Jam Su Ranjitsinji Mills at Sholapur Nizam's Dominions For other purposes we buy in the Westerns, Munj, Bronch and Gujarat Districts In the mills at Sholapur we spin up to 20s warp. No weaving in done there. In Kliandesh we spin up to 16s warp, and 22s west. We are using Cambodia at Jalgaon as a temporary measure. There is a good demand for finer yarn

4834 Cotton is pure when it arrives in the market. After it has been pressed, it may be mixed prices in up country markets are higher than thoy are at Colaba owing to the mixture of cotton. In order In order to

buy pure cotton we buy up country
4835 The culturators are generally in debt and borrow money to pay Government revenue and also for cultivating operations In Khandesh and Berar, the jalap system is universal, that is the system of future S Under that system, cotton is sold just after it is sown, which shows the indebtedness of the culti-Of course, things are improving and jalap is decreasing every year. The work of the co-operative at should be advanced very materially. If the cultivators were free to sell their cotton at any time movement should be advanced very materially. If the cultivators were free to sell their cotton at any time they liked, they would be able to obtain good prices for it. They are forced to sell their cotton forward on account of their indebtedness. Co operative societies would not be able to advance the big sums required for financing cotton The money should be advanced either by Government or by Government controlled

banks If the funds of the Presidency banks were utilised for cotton, it would be a good thing

4836 Japan is the greatest purchaser of Indian cotton

Much of the middleman's profit could be saved by doing that

I have never been to Japan but I am shipping cotton to Japan through an English firm and I find great difficulty in doing so

There is a great difference between shipping through an English firm and through a Japanese firm

There are very few English firms

who are doing business in Japan

4837 In my opinion, the staple of ootton could be improved by putting in good manuac in cotton lands My experience over fifteen years in Kandesh is that every year the staple of the cotton is deteriorating used to get ghat cotton in Khandesh from near the Ajanta caves from which we used to spin 20s warp. From the same cotton now, we can only spin 16s. The reason is, I think, that the cultivators have no knowledge of the land or of manure and they grow ootton every year. The cultivators should have gins worked by hand or by bullook power and then they would get pure seed. Owing to all the cotton being brought to the ginning

factories, the seed becomes mixed

4838 I am a factory owner and would not like pools abolished as, if there were no pools, there would
be no profit The ginning factory would have to be closed Every body wants to sharo in the profits of ginning and pressing and pools spring up in consequence. I know that there are buying pools because I am purchasing in many districts. Even if laws against pools were passed, ways would be found of evading them

It would be a very difficult thing to control by legislation

4839 I think it is a very good suggestion to have beenses controlled by a Central Board but if the Central, Board is going to entrust its powers to local committees, the regulations will be evided. I have noticed that the Cotton Trade Association has suggested this but my idea is that if buyers bought mixed cotton at a discount, the practice of mixing would stop by itself. If the purchasers and consumers of cotton were to buy up country, there would be no fraud. The Japanese own nearly half the cotton that comes to Bombay. They purchase in up country markets themselves I would ruther that exporters and consumers had their agencies

for buying cotton in the districts than to have legislations against mixing
4840 (Mr Hodghinson) The quality of the Indian ootton throughout India is depreciating. It is
depreciating in every district whether in the Cambodia country, Surat or Khandesh. If you take the average
for five years, you will find the same thing. I have no practical experience of agriculture but I think that

THE BOMBAL MILLOWNERS' ASSOCIATION

the cultivators may be growing more crops of cotton than the land can bear. When there is no demand for corrser cotton, the cultivators will go for the finer, so long as they get good prices for the coarser cotton, they will not go in for staple cotton. Long staple cotton takes eight months to grow whilst short staple cotton only takes three or four months and so naturally the cultivator goes for short staple cotton If the trade generally is going to spin finer counts of yarn the tendency of the short staple cotton will be to sell at a discount I am now using Cambodia experimently We can spin 30 s warp out of Cambodia From the Cambodia that I used to get from the same district ten years ago we used to spin 60s. It was called Podanur There was not a big domand for it then

4841 I tried one saw gin at klandesh. The cotton turned out by that saw gin was not approved by crs. The cotton came out as a lap from the saw gins, and the saw gins cut the staple. Saw gins might Luvers

be suitable for long staple American cotton but are not suitable for Indian cottons

4842 (Mr Roberts) I have no experience of Navsari or Surat cotton Hubli cotton has deteriorated The deterioration in cotton may be due to the middleman. I buy ginned cotton. In Khandesh and Berar we get cotton from the central markets. Markets are very necessary for cultivators to sell their cotton. 4843. There is a large variety of weights used in Khandesh. It would be a good thing to have stand.

The Bombry Government are moving in the direction of standardizing weights in Khandesh ardized weights The Bomb is mound of 28 pounds has been accepted in Berry A similar system in Khandesh would save the cultivators from being cheated Different weights always mislead them

4844 (President) The guilds I have suggested in my written evidence should have Government Direc As to capital I have suggested that one third should be supplied by the Government, and two thirds, he Presidency Banks—The Presidency Banks would give security on the one third of the capital supplied by the Presidency Banks

by Government

THE BOMBAY MILLOWNERS' ASSOCIATION

EXAMINED AT BOMBAY JANUARY 31ST, 1918

Written statement

4845 Preamble - This Association's representatives will appear before the Cotton Committee to give oral oxidence when it meets in Bombay and in the meant me I am to submit shortly, the views of my Com

mittee on such of the questions as they are interested in

4846 Prevention of mixing and damping—As buyors of cotton, nullowners require the best and longest stapled cotton as they can obtain. The best is none too good for their purpose. If cotton is mixed, it causes trouble everywhere in its manufacture. There are two scrious drawbaels in cotton as marketed at present.

(a) Mixing, friedulent or otherwise, in seed form, Lapas or as cotton

(b) Fraudulent damping

(2) Fraudulent mixing is an offence which the law should prevent Fraudulent damping is an offence which the law should eradicate. In order to prevent fradulent mixing and to obtain long stapled lint it will he necessary for all seed to be issued by the Agricultural Department. It will be further necessary by law to prevent transport of cotton from one place to another except in the baled form, with the provise that when cotton is sent to an up country mill for consumption the baling may be dispensed with Further it will be necessary to identify where each hale has been guined and pressed. For this purpose it is desirable that each bale in the case of a press or each prekage of loose cotton in the case of a ginnery should be brunded on its side with the name of the pressing factory or ginnery from which it is issued. The brund should be on its side and under the hoops so that the marks cannot be obliterated

(3) Watering should be made a criminal offence, the penalty being the closing down of the ginning or pressing factory concerned. Every ginning and pressing factory should be beened and should be compelled

to send fortnightly records of all cotton ginned and pressed

4847 Formation of a Central Cotton Committee - The administration of these matters should be placed in the hands of a Committee in Bombry consisting of business men and Government cotton experts with an adequate organisation. The Committee should have powers to delegate their authority to a limited extent to local committees

4848 Levy of an export tax on cotton -My Committee are of opinion that a duty should be levied on all exports of cotton The present Cotton Agricultural Department of the Government is very weak owing to lack of funds and it is therefore suggested that the revonue derived from this export tax might be used to streng then the Cotton Agricultural Department and specially carmarled for this purpose

(Sd) R E GREGOR PEARSE,

Secretary

Mr C N Wadia (Chairman), the Hon'ble Mr Marmoniandia Ramii and the Hon'ble Mr C N Metha, Representatives of the Bombay Millowners Association, called and examined

4849 (President) Mr C N Wadia —I am one of the Directors of the Cotton Trade Association and am Chairman elect of the Millowners' Association —There is a very considerable domaind for long staple cotton in the Bombay market for the purpose of the mills —We do not get quite enough of it —The best cotton is hardly

good enough for our purposes
4850 There are several points that have struck us since we put in our written evidence is that cotton is grown by cultivator in rather a hap hazard manner from unselected seed. We should like to see all cotton in India grown from selected seed. If you make a wide enquiry, you will find that good

cotton is only grown from selected seed. The first necessity is therefore selected seed

4851 The second point is that at present the cultivator is largely in the hands of the bania The moment his crop reaches anything like maturity, the fields are sold to the bania We think that the use of co opera tive societies might be very largely extended and that agricultural banks might be established.

4852 The third point is that the ginning factor, owners allow as innolidirt and seed as possible to go into the list In some gimeries it is, in fact, the practice to tale up liandfuls of seed and throw them into the list In increases transport charges for instance, Lumpla cotton at the end of the season carries 25 per cent of the dirt for no cartily reason. That wipes out the value entirely for export purposes. All this is due to want of knowledge on the part of the raot and of supervision on the part of ginning factories

4853 America, we understand, spends fifty times as much on cotton in her Agricultural Department as we do in India and yet they have not yet reached perfection there—It is very necessary that our Agricultural Department should be very much expanded—I would recommend a very considerable merease of the Agricultural Department, the open ng up of a very large number of seed farms and then, as regards the financial aspect, a rapid extension of the co operative movement supplemented, if necessary, by agricultural banks if a worl able scheme for them can be worked out. We consider that if the work of your Committee is to result in any good, only scheded seed should be sown, as far as possible, especially in the case of long staple cotton

4854 I think that the cotton markets should be regulated on the model of the Berar cotton markets. There may be better markets but those are the best that we have come across so far. It is a good model to follow and to improve, if possible. Then we consider that a strict watch should be kept over the ginning and pressing factories. In fact both ginning and pressing factories should be licensed. The next step is for the Agriculture. tural Department to find out the most suitable variety of cotton for each district. Steps should be taken to cradicate watering and also the mixing of short and long staple cotton in the gimeries. We would next suggest that the fullest advantage should be taken to the inoccupied land in Sind. I inderstand that Sind can with proper irrigation grow as good cotton as I gypt. We would recommend that the transport of cotton and the land of the control of the land of the control of the land of the control of the land of the control of the land of the control of the land of the control of the land of the control of the land of the control of the land of the control of the land of the land of the control of the land of the l or waste be prohibited except in the form of bales and to a port or to a bona fide consumer. In regard to the formation of a Committee in Bombas to regulate the cotton trade, in our opinion an advisory committee is not of as much consequence as an executive committee with plenary powers to take such steps as they think best for the trade including such matters as the because of gimning and pressing factories the regulation of pools, the issue of seed means of tricing cotton back to the place of issue and the obtaining of rehable and accurate statistical information

4855 (Mr II adia) I think there are several reasons why long staple cotton does not command the premium it ought to do. To my mind, the first reason is that long staple cotton is not uniform. If you want a premium for good cotton, you must have the staple of that cotton uniform. It is no good having a staple of 12th inch in one part of the bile and one of 3ths inch in mother. That is what we are getting in the so called long staple cotton. The second reason is that long staple cotton is mixed not only with short staple, but also with dirt and seed and everything that can be put into it. All these things depreciate its value follows. My point is that if long staple cotton were marketed in a pure condit on and in a clean state, it would fetch the proper premium that it ought to get
4856 Mr Manmahandas Ramp - \s an example of the fact that the consumer appreciates long staple

cotton, I can quote the example of Aavsau cotton which is quoted at Rs 130 or Rs 140 more per *l'haud*i to day than Broach This shows that long staple cotton fetclies the better price and that there is an ample margin to be obtained by growing long staple cotton. Navsari cotton is marketed in a pure condition and

that is why it fetches a high price

4857 Mr Mehta —Navsari cotton is marketed in a much purer condition than the ordinary run of long staple cottons. At the present tune, every cotton commands a big price simply because there is not enough for it to go round and the price of American cotton in England is 22d a lb simply because the cotton is not there and the transport difficulties are so great. To day the price of American cotton is about 30 cents or 15d per pound in America. The price of Broach here is about Rs 650 per thand; , up at Broach that would be about 12d to 13d a pound so that long staple cotton in India fetches a reasonable proportion relatively to

4858 From the millowners' point of view, short staple seed should not be issued in districts which are

capable of growing long staple cotton

4850 Mr Rampi—The reason for growing short staple cotton wholesale is this that it matures earlier and is therefore available for selling earlier. The poverty of the rvot is therefore a cause of encouraging short staple cotton which matures about a month or sax weeks earlier than the long staple. Another cause is that every day the number of holdings is multiplied. The sub-days on of holdings increases with every generation and each sub-daysine reduces the producing expects of the fields. It is only because it is family property and for sentimental reasons that people cling to these small holdings but it does not pay them to grow any thing decent, they cannot look after the land properly or manure it properly and so it is neglected. That is the reason why they live such a hand to month existence. Large holdings should be encouraged and the subsidities could be storned alterether.

sub-division of holdings should be stopped altogether
4860 Mr Mehta —I think that one of the reasons why the cultivator profess to grow short staple cotton is, as Mr Runji has pointed out, that it gives an earlier return. He therefore gets his money earlier and is thereby able to pay his Government dues. The Government dues are usually payable about January and long staple cotten does not begin to come in very much before March, April and May

4861 Mr C N Wadia—I suppose that there must have been a shortage of cotton if pure Punjab American was getting Rs 650 and the mixed stuff Rs 640 I cannot conceive of any body buying mixed cotton when pure cotton was available, especially at a difference of only Rs 10 II pure cotton is not available.

able, mixed cotton was an able, especially it a difference of only Rs 10 If pure cotton is not available, mixed cotton would sell at any price. Personally I have tried to use this Punjab American year after year but, as marketed in Bombay, I found it such poor stuff, so uneven in stuple and so uniform in character, that I have never been able to use fifty bales of it, although my mills have been crying for good cotton.

4862 We confirm what the Cotton Trudo Association has told you about the mixing of goghar and Broach and that although the yield of goghar may be greater, the market price of Broach more than componsates for the difference. Goghar should not be encouraged at all in the Broach tract. At the present moment, the Broach cotton is deteriorating at a very amplification and a very important trade standard will therefore disappear.

und a very important trade standard will therefore disappear

1863 Dumping ought to be entirely prohibited. As far as I know, there is no truth in the statement that slight damping enables a balo of larger size to be pressed. The desire to obtain illicit gain is probably

the strongest reason for damping

4864 It is a good idea that separate ginner es should be set aside for ginning American and deshi cotton
in the Punjab, if it is practicable I understand that the first pickings of Punjab American cotton are very short in staple, the second pickings are longer in staple and the third are shorter again but not so short as the

first It seems to me that the proper course would be to press the first pickings before beginning to press the second pickings. I do not think that separate ginneries, as suggested would overcome that difficulty unless the first pickings were sent to one ginner and the second pickings to another but then one ginner, would be lying idle and a double supply of ginneries would be required. We have seen many bales of long stapled cotton with either lapas or pure unadulterated seeds thrown into them

4865 As regards the use of false weights in gimning factories in order to cheat the cultivators. I am afraid we are not competent to express an opinion but, of course, it should be a condition of a license that only stand

ard weights should be kept in the ginneries

4866 As regards the penalty for fraudulent mixing or damping our opinion is that, if an offence is committed, it should be punishable and the amount of punishabent should be left to the proposed Committee to decide but the punishabent should fit the crime. It would be a very desirable thing if all factories were flagged

4867 We have not suggested the abolition of pools but we have said that the Central Committee should regulate them—I think that the Committee might fix a reasonable price for giming and pressing—If we were starting entirely afresh, it would be better to debar pools altogether but it would now be very hard even for a Central Committee to say which ginnerics should be stopped and which should be kept going—It is therefore much better to regulate pools and to let them settle which factories shall be worked

4868 Mr Mehta —In some cases pools have refused to gin pure cotton That should certainly be regulated. No pools should be allowed with such an object. In regard to the suggestion that the ginning charges throughout India should be approximately the same, we are hardly competent to give an opinion. Much depends on labour and dearness of fuel. But there is no justification for charging Rs 3 per bale in one district and Rs 9 in another. We have already suggested that the Central Committee should regulate the prices, where a complaint is made that excribitant prices are being charged. Otherwise they should not interfere The rates should be as nearly uniform as possible, taking into consideration local conditions and disadvantages and allowing a sufficient margin for depreciation and profit.

4869 Mr Ramn—I think there would be a danger of ginning factory owners cutting out others from buying cotton. I have noticed that when there is an unusually large crop and it is beyond the ginning capacity of the district. They buy the Lapas at a lower rate and gin it themselves. If the charge for ginning were regulated, it would be increly giving a monopoly to the ginning factory owners in the case of big crops. It is only when there is a shortage of factories that there is no pool, the pools exist where there are too many factories. If a maximum rate for ginning were fixed, then the ginners would buy all the cotton and gin it themselves.

4870 Mr C N Wadia —If it were decided to levy a cess or tax in order to meet the cost of the Cotton Committee's proposals we should prefer an export tax for the reason that it is so very easily callected. It would be very difficult to collect the tax at every ginning and pressing factory. It would be even more difficult to collect it on cotton which was not ginned or pressed except at the consuming factory. An export tax is paid by consumers in other countries. I cannot see the force of the argument used by the Bombay Chamber of Commerce that if an export tax only were levied and not a tax on the whole of the cotton grown, the mill owners would put that extra profit into their pockets and the cultivator would not benefit by it Funds must be provided for the expansion of the Agricultural Department. Whether they are provided by an export tax which we should prefer, or by a general tax, money must be provided for work on cotton and must be carmanled for it. I would suggest a separate agricultural staff entirely for work on cotton. We want an organization something like the American organization which is very extensive

4871 The question of the Sukkui Barrage is an engineering question, which it is for the Committee and the Irrigation Department to decide but we think that a project for irrigating Sind should be taken in hand as soon as possible. There are very large areas in Sind which, if they could be given water, would grow very fine cotton and we recommend that this point should be pressed in the Committee's Report as being most important and vital

4872 (Mr Hodgkinson) The quality of long staple cotton in India is not so good as it was ten years ago. Saw ginned Dharwar American commanded a vory high premium seven or eight years ago. There was a shortage of crop one year and waste was sent out from Bombay to be mixed with the lint of this cotton so that the cotton lost its name entirely. The people who buy long staple cotton very largely will not touch saw ginned cotton now. Our idea is that short stuple cotton has not deteriorated to any material extent but the tild long staple cotton has, the reason bong inviture of seed and hap hazard sowing. It is also partly due to the ginning factories. If they gin kapas from two different districts, the seed gets mixed and is sown mixed. There is depreciation in the next crop and the process goes on. As with most other things it is a case of the worse always driving out the better. Deterioration due to picking unripe bells is nothing like the deterioration due to the mixture of seed either knowingly or unknowingly. We are not in a position to unake any recommendation with regard to the picking of the cotton. In regard to the eiushed seed that is found in the biles, I think it is caused to a certain extent by bad ginning. A certain amount of adulteration with crushed seed is done wilfully in the ginning factories. There is no adulteration with stones but there is a small amount with sand though nothing like to the same extent as in America. We have used American cotton and we found 35 to 50 lbs of sand in one bale. When we complianed, we are told that there had been a sand storm in that district. We cannot reject the cotton when we have got it out here and when it has trivelled 6 000 miles. The natural moisture in Indian cotton varies a great deal according to the seasons. We have no particular standard for that

4873 Mr Mehta—The kapas does get dew on it and that cannot be helped. If one examines the kapas—in the morning, it is always damper than when the sun has been on it. The practice of watering cotton with a hose pipe still goes on to a certain extent. To a certain extent also the ground is duiped and the kapas or bales of cotton placed on it. I do not think that there has been much improvement in these respects

4874 In C N Wadia —I may mention one fact about dampness which is of interest Cotton weighed at Collaba in May and again in August gains ten pounds a bale in weight during that period. That shows the rate at which cotton can absorb mosture

4875 Mr Mehta —I use a considerable amount of Punjab American in my mills—it is badly mixed with deshi or with some cotton which is presumably deshi. It is very irregular—It is very difficult to say whether the irregularity is due to different pickings being mixed together or to mixture with deshi.—The cotton is so uneven that it might be mixed with anything—At all events a lot of the cotton which has come down to Bombay has shown signs of being mixed with deshi.—I cannot tell whether there is mixture when it is less than ten per cent—Anything beyond that we can tell not only by the staple, but also by the feel of the cotton

MI N B SALIATVALA

I have never been able to buy in Bombiy pure Punjab American. I do not I now whether it exists, if it

does, we have not come across it 4876 Mr Wadia - The Dharwar American cotton is all sin guined. San gins elean the cotton very much better than the roller guis but they make it softer than when it comes from the ordinary roller gui. I beheve it is weaker in tests. If the experience of Dharwar American is to be relied upon. I would not advocate the use of saw gins for long staple cotton But I am hardly competent to decide

4877 We agree that if classification could take place by standards without any fancy names we should profer it. The special names have become unincreasily. We should prefer classification by standards.

4878 The Bremen practice of a mutual allowance is a very good one. We should certainly prefer to pay the allowance than to receive it. The practice of appointing official arbitrators is also a very good one and we are in favour of such a practice. The arbitrators should be men who would be unconnected with the trade in other expectics after appointment. Suitable men could be got if they were paid sufficiently highly 4879 (Mr. Roberts) Many mill owners awn ginning factories up country. Some of the largest mill owners have a very large number of ginning factories in country. They can control them to some extent.

They complain of the competition from the outside factories. If the pumuliment were made to fit the crime it would be very easy to tradiento witering and mixing. The Nixam's Government is trying to do so now and has been quite sneecesful so far. I take it that the first duty of the propo ed Central Cotton Committee would be to establish a 'vard measure' of damping. Once that measure has been established it would be easy matter to say whether eotton was damped beyond that measure or under that We recommend that fully pressed bales should only be sent to a port or a bona fide consumer

4880 My idea is that the Agricultural Department should be officed seed suppliers, if distribution could be arranged through association or to operative credit societies it would come to the same thing. What we want is that nothing but selected seeds should be sown by the roots. How the roots would obtain such seed

would be a matter of detail
4881 I wed Punjab American last year and the year before that We tried it in very small quantities a hundred or two hundred bales. It was not certified as pure. We bought at in Bombay from Ralh Brothers It was certified as Punjah American cotton—Rallis selection whitever that may be This year one firm has issued a notice that this year Punjab American cotton was coming in mixed but that, in a few weeks, they would be in a position to offer it pure to their clients but we have not seen it yet. I think that ginning Punjab American in one ginning factory and short staple cotton in another might be tried.

1882 Our idea is that there are certain districts in which short staple cotton must be grown and that it should be grown in these districts. But where a district ein grow long staple cotton, efforts should be made to provide it with cotton which is particularly juice and of long staple for which there will be a great elamour in the future, particularly if it is marketed juice and is of uniform staple. Then there is the question of the Mahma tract which Mr Manmoli in D is has mentioned. Mahma is particularly smithle for long staple cotton. The reason why short staple cotton is grown their is that the roots have to pay their tuxes at the beginning of the year. The short staple cotton in itures quicker and therefore it is grown in that district there were proper supervision, observation and regulation it would be possible to grow long staple cotton there I do not think that there have been any adequate experiments or tests there as to which cotton is the most smitable. I have great objection to the policy of distributing X. R. seed which is being followed in Khandesh. For a time it may work but the crop deteriorates gridually. If any reasonable good cotton is replaced by a cotton which is not good, the process of deterioration is not detected for a very or two. It probably takes three or four years. Then the cotton gets its proper valuation. The price depends on the relative position of the deteriorated cotton in the market. Khandesh cotton stands so low that it does not matter very much what happens to it

Mr N B SAKLATVALA, Director, Messrs Tata Sons & Co, Bombay

Example of Bonday, January 31st, 1918

Written stalement

4883 Preamble — The views of my firm of Messrs Tata Sons & Co on the several questions under consi deration have been exhaustively placed before the Committee by Sir Bezonji Dudablioy, the Manager of our Central India Empress Mills at Nagmi Again the Bombay Millewiners' Association, of which body I am a member of the Committee, have also dealt with the several questions from the millewiners point of view, and the Bombay Cotton Irade Association, also, of which I am a Director, have in their written statement expressed their views as far as the cotton trade is concerned. I am, moreover, in perfect agreement with the opinions expressed by Sir Bezoni, though I do not endorse all the views expressed by the two bodies mentioned above I hope, therefore, I shall be excused if I do not traverse the same grounds again, but content myself will handing in a copy of my written ovidence on the subject recently given before the Industrial Commission (Annevure I) and confining my further remarks to the attempt made for the develop ment of the growth of American cotton in Sind, a matter in which, I understand, your Committee are taking a good deal of interest

4884 Worling of the Sind Cotton-Growing Syndicate - With this object in view, I give herewith a brief survey of the working of the Sind Cotton Growing Syndicate, of which I am a Director, and my firm are at present acting as agents, and which was formed by some of the prominent Bombay millowners with the object of ee operating with Government in order to encourage the growth of long stapled cotton from American seeds in the canal districts of Sind, the circumstances leading to its formation being briefly as follows

In January 1912, the Government of Bombay asked the Millowners' Association whether they were pre pared to eo operate with Government in experimenting with American cotton in Sind and would provide an agency for supplying such baled cotton to the markets. The Association as a body were unable under their rules to do so, but the principal members of the body were willing to form a Syndicate with that object in view and were ready to meet Government for the purpose of arranging details in connection with the scheme Accordingly after some correspondence and interviews with Government, an understanding for the starting of a Syndicate was arrived at as embodied in the annexed letters from the members of the Syndicate to the

M1 N B SAKLATVALA

[Continued

Secretary to Government and their reply (Annexure II) and at a meeting of the members held on the 9th April 1912, the following resolution was adopted —

'That a Limited Liability Company be formed with a capital of rupces one lakli, half the amount to be called up at an early date. That the firm of Messrs Greaves Cotton and Co, be appointed managing agents and also the following gentlemen be asked to become Directors, viz, Mr. H. R. Greaves, Sir Fazulbhoy Currimbhoy Mr. J. F. Bradbury, Mr. Manmohandas Ramji and Mr. N. B. Saklatvala."

The prospectus issued by the Syndiente very fully deals with the objects for which the new company was started, and the same is attached herewith for the information of the Committee, as Annexure III

- (2) Unfortunately for the Syndicate, in the first year of its start. Government were unable for various reasons to bring seeds in time for sowing and they asked the Syndicate to pestpone operations for one year. Subsequently at a meeting held on the 27th June 1912, when the Director and Deputy Director were also present, the following important points were decided upon
 - (a) The Syndicate were advised to set up gins at Shikarpur rather than at Jacobabad as land close to the station, good water and cheap labour were more likely to be obtained there
 - (b) It was also thought necessary to set up a ginning fretory at Mirpurl his to deal with at least 1,000 bales
 - (c) Government undertook to induce cultivators to grow long stapled cotton from American seed supplied to them and they further took upon themselves to get the cultivators to bring their produce to the gins of the Synd cate
 - (d) The basis of price to be fixed and the mode of payment were as follows -
 - "Hilf the price of Middling American as quoted in the Times of India of a date two or three days prior to the date of receipt of the riw cotton at the gin should be pa d on account to the cultivators on delivery. The percentage of lint to raw cotton to be calculated for this purpose at 33 per cent."
 - "Thus if Middling American was quoted in the Times of India at 6d per lb the cultivator on delivering 100 lb of raw cotton at the gin was to be paid for 33 lb at 3d per lb. The balance due to the cultivators was to be paid on the basis agreed on between the Syndicate and Government after receipt of the result of the grading of samples in Liverpool."
- (3) After all the preliminaries were thus settled, it was naturally expected that a good start would be made and the necessary stimulus given to the growth of American cotton in the canal districts in Sind, but the Syndicate's actual experience of five years has unfortunately been most disappointing owing to the under noted causes —
- (1) Seeds not being received in time by Government, no sowing could be made for the year 1912 and though all preparations were made to erect factories at Shikarpur and Mirpurkhas according to Government instructions, the whole season had to be lost
- (ii) No American cotton has ever been grown at Shikarpur according to the undertaking given by the Government. Thus the factory has never been able to work and all the expenses of the Syndicate have been incurred to no purpose. The machinery of this factory had to be sold off at a loss of over Rs 700 and the buildings were tallen over by Government for the sum of Rs 5,000 which involved a further loss of over Rs 3,500, the reason given by Government for paying so much below the cost pince being that, in their opinion the buildings were badly put up by the then agents

 (iii) At the start, Government had taken upon themselves to induce the zamindars to grow cotton from
- (m) At the start, Government had taken upon themselves to induce the zamindars to grow cotton from American seeds and to bring all their produce to the Syndionte's factories for sale. This undertaking they were not able to fulfil for various reasons and hence even the factory at Mirpurkhas never got enough stuff to work it on a commercial basis.
- (iv) Government according to their promise were not able to provide the zamindars with unimized seed enough even to keep the factory going during all the seasons
- (v) The mode suggested by Government for payment to the cultivators for their kapas was found unacceptable by them and thus the zamindars had very little inducement to grow American cotton in place of deshirms draw back was remedied last year when Tata, Sons & Co` took up the management
- (vi) The irrigation difficulties were experienced during all the seasons so much so that, during the present year, the factory could not be worked at all as the expected crop was much too small
- (vn) Government have maintained that if saw gins land been put up at the factory instead of the roller gins, the quality of the crop would not have suffered, a statement which the Syndicate's members are not prepared to subscribe to from their actual experience
- (vm) Government further maintain that the Syndicate from year to year has not paid the cultivators an adequate price for the American *kapas* and the difference in price between American and *deshi kapas* has not been a sufficient inducement to the cultivators to grow the former in preference to the latter
- In 1913, farm grown American cotton was valued at 7½ m Liverpool, the price of middling American at that date and the district grown American at 1 or 1½ lower—In 1914, the prices were upset by the out break of war, still farm grown American cotton secured 50 per cent—premium over deshi prices—In 1915, the advantage was only 5 to 7½ per cent—Last year, tho premium given was about 25 per cent—though it was agreed among the Directors that the quality had deteriorated appreciably
- (ix) Mirpurkhas is a notoriously unhealthy spot and the management have to put up with great inconvenience owing to sickness among the staff
- (4) To throw some further light on the subject and in the hope that it would prove of some interest to the Committee I append a memorandum circulated by me among the Directors in this connexion on 31st May 1917 and marked Annexure IV
- (5) To sum up, it is indeed unfortunate that a venture started by the members of the Syndicate in co operation with the Government for such a laudable purpose should so far have proved a failure for reasons already mentioned. The Syndicato launched the scheme not with any intention of making profits but with the sole view of co operating with Government for furthering the cause of the growth of American cotton in Sind where the soil promised to give satisfactory results, but all the Syndicato's exertions and expenses have litherto shown no encouraging results. This, hewever, is not to be wondered at, since under the existing conditions, it is evident that the venture was foredoomed to failure. But there is no reason to despair for the growth of American cotton in India, looking to the success that has attended similar efforts made in the Punjab

Bombay]

and I still maintain that if attempts are made under more suitable conditions, in the light of past experience, the question has possibilities of success

ANNTYURE I

Extract from the cyclence given by Mr N B Sallatiala before the Industrial Commission

91 The adulteration of cotton has been for a number of years engaging the attention of millowners with out their being able to suggest an effective remedy Tho adulteration is carried on in various ways by the mixing of seeds, or kapas, or cotton The whole trade is av are of these goings on, and Indian mills and Con tinental and Japanese exporters buy this mixed stuff with thoir eyes open Pure cotton from the district of its origin is a larity in the Bombay market, and it is safer to buy on spot, in the districts where the cotton is grown, and to gin and press it under one's own supervision. There are many examples of whole districts which have deteriorited in the quality of their cotton, until they have lost their reputation for their finer grades and have become of secondary importance. The idea underlying the action of the cultivators and merchants is the facility for the disposal of the stocks afforded by cheaper stuff which is more easily saleable Many years back Government enacted a law making it ponal to adulterate cotton, but they found the remedy worse than the disease, and gave it up

112 B The improvement of Indian cotton, both as to yield and as to quality, has of late been ongaging the attention of all who are interested in the subject. That there is vast scope in both these directions cannot With the growing requirements of cotton all over the world, and with the wild fluctuations in prices in the American crops, the growing of more and better cotton within the British Empire becomes of greater importance every day. I must admit that the Government of India, the Local Governments of Provinces, and even the Native States, have not been idle, and experiments on a fairly extensive scale are being carried out for growing better stapled cotton and one that is free from admixture of indigenous virieties. I have knowledge of Government's great activity all over the country, but what I regret is that much of their exertions are nullified by the growers' innate proclivity to mix up seeds with the deshi stuff in order to lessen prices. I believe the growth of Cambodia cotton at one time promised brilliant results, but the cotton has by degrees sund to good a level that all costs of good and had given a sund to good and the deshi stuff. cotton has by degrees sunk to such a level that all sorts of good and bad stuff came to pass under this name. The experiments with American seeds in Sind and the Punjab have so far given encouraging results, and the pioneering work done by the respective Governments is laudable. The British Cotton Growing Associa tion have their eye on these tructs of land, where they consider, and rightly too, that the growth of these districts should yield results which may, in time, to some ortent, solve the Empire problem of growing cotton for its own requirements within the Empire Some of the Bombay millowners have also formed a Syndicate for buying kapas grown from American seed in Sind, and ginning it at their own factories, and thus encouraging farmers to go in for the growth of long stapled ootton. A great authority like Professor Todd considers that India presents the best opportunity of growing cotton of finer quality suitable for Lancashire Mills, and he is strongly of opinion that exertions in this direction would yield speedy results I think that if cotton is grown on more scientific basis in smtable districts, if more use is made of foitilizers, more care taken in ginning and pressing and strict watch kept over adulteration in any shape, India can very easily regain its place in the cotton would and be of the greatest help to the textile industry of the Empire and incidentally to itself

Annexure II

Letter to the Hon'ble Mr W H Lucas, Secretary to Government, Revenue Department, Bombay, dated 23rd March 1912

Wo desire to thank you and Mr Smart, the Director of Agriculture, for the kind interview you gave to us, the following members of the proposed Syndicate, for establishing a buying agency to eo operate with Government in experimenting with American cotton in Sind, and for ginning, pressing and supplying biled American cotton to the market, and, as per our discussion with you, we now have the honour of laying before

Government our formal proposals for establishing such an agency

We understood from you that the forty tons of American seed "Triumph," which the Government of Bombay had ordered through the British Cotten Growing Association, had been delayed and that it will not likely be urriving here till the end of May — It would be, therefore, too late this season to sow this seed in Jamrao and lower Sind, but that you are prepared to obtain ten tons out from Liverpool and to start experiment at Jacobabad this year. These ten tons will approximately grow 250 bales of cotton. We further understand that the Director of Agriculture will be prepared to deliver such Lapas grown from American seed. or eause it to be dehvered, at the ginnery we propose to establish at Jicobibid free of ill costs

Accordingly our formal proposals are as follows

(1) That the Syndicate shall put down at Jacobabad, on a piece of land adjoining the Railway Station, which shall be given free by Government, a ginnery consisting of ten machines, Macarthy cotton gins and two saw gins

(2) That the special American cotton grown under Government supervision be ginned by the Syndicate at this ginnery and then pressed in bales oither at Tando Adam or another convenient place

and then brought down to Bombay

(3) The Syndicate would first offer to sell either by auction or by private treaty such cotton in Bombay to local millowners or shippers to England, failing which, at its option, ship the cotton direct to

Lwerpool or elsewhere

(4) The Syndicate at the beginning of the season send three or four type samples to Liverpool Cotton Exchange and have them graded on the basis of Middling cotton On receipt of reply from Lucrpool by wie, the Syndicate will day by day on the basis of above grading and price of Middling American of the day, pay the cultivators the equivalent price less the following

(a) Half per eent brokerage to the Syndicate(b) If sold in Liverpool less freight and insurance charges from Bombay or Karachi to Liverpool, and all other selling expenses for warehousing, delivering and commission at Liverpool

(c) If sold in Bombay, all freight, insurance, narehousing and other charges from Karachi to Bombay and at Bombay

- (d) All charges of ginning, pressing, indiway and other charges to Karachi

- (e) And also interest for two months at five per cent

 (5) Ginning charges to be charged by the Syndicate are to be the average ruling charges in Sind

 (6) If these proposals are accepted, this Syndicate will be prepared to co operate with Government in

 1913 and 1914 on the same terms for all cotton grown by Government from American seed up

 to 100 tons of seed each year, subject to such modification as may be mutually agreed upon after the first year's experience

In conclusion, we may say that if these terms are accepted, we are prepared to form a Syndicate with

sufficient capital to give this experiment a fur trial

We have the honour, therefore, to request you to give us at an early date Government's reply to these proposals, so that Messrs Greaves, Cotton & Co on our behalf can push on with the erection of a gunnery at Incobabid, which is required by you to be ready by December of this year at the litest

(Sd) N N WADM

(Sd) Fizulbhoi Currimbhoy

(Sd) H R GREAVES

(Sd) C N WADIA

(Sd) J F BRADBURY

(Sd) B D PATEL

(Sd) Manmonand is Rimin

(Sd) N B SARIATVALA

Letter from R D Bell, Esq, I C S Under Secretary to the Government of Bombay, to N N Wadia, Esq, Chair man, Bombay Millowners Association, No 3168, dated 30th March 1912

I am directed to acknowledge the receipt of your letter dated 23rd March 1912 submitting proposals

for the formation of a Syndicate for establishing a buying agency for long stapled cotton in Sind 2 In reply I am to state that the Governor in Council approves of the scheme submitted by you and

recepts your proposals

3 The Secretary of State for India has been requested by whe to send ten tons of Triumph cotton seed immediately on arrival at Liverpool so as to reach Karachi by the middle of May at the latest to store the remaining thirty tons of the seed in England and to ship them after funigation so as to reach India early in 1913

4 With reference to the Syndicate's proposal that a piece of land adjoining the Rulway station should be given free by Government for the erection of a ginnery at Jacobabad, I am to say that the Commissioner in Sind will be requested to select a piece of Government land and it is hoped that a piece will be found to suit the requirements of the Syndicate

ANNEXURE III

Extract from the Prospectus of the Sind Cotton Growing Syndicate

Incorporated under the Indian Company's Act, 1882

Rs

Share Capital

1,00,000 50,000

Paid Capital

In Ordinary Shares of Rs 100 each payable-

Rs 25 on application

Rs 25 on allotment

Balance as and when required subject to one month's notice being given

No interest will be allowed on amounts payable on application or allotment
will be declared at the unnual General Meeting of the Syndieste and will be payable thereafter, but the Directors have power to pay interim dividends on account of the dividend for the current year when in their opinion the profits permit

Directors

The Hon'ble Mr H R Greaves The Hon'ble Mr Fazulbhov Currimbhoy The Hen'ble Mr Manmehandas Ramji J F Bradbury, Esq N B Saklatvala, Esq

Bankers

The Bunk of India, Limited-

Agents

Messrs Greaves, Cotton & Co

Registered Office

1, Forbes Street, Bombay

In issuing this prospectus, the Directors of the Syndicate beg to draw the attention of the members of the Bombay Millowner, Association the Bombay Cotton Trado Association and the Bombay Cotton Exchange to the object for which it is formed

Mr N B SAKLATVALA

[Continued

It is not expected that in the first years working there will be any profit and the fact to be kept in view is that it is necessary to supplement the existing supply of long staple cotton and to co operate with Government in their endeavours to produce the best class of cotton available. There have been many references both in the press and classifier to the sourcity of long staple cotton, and the Directors trust that everyone interested in the cotton crop of India and the cotton industry will support the scheme and do their best to make it a success.

Government are importing seed and will supervise the sowing—growing and everything in connexion with it and this Syndicate is formed to issist Government in their object and also to provide the best means of marketing the crop and assuring the cultivator a reasonable price for his produce, and supplying the local mills with the long staple cotton which is needed—The large importations of American cotton this season prove that there is a market for good class cotton in India, and should there be a repetition of this year s short local crop coupled with shortage in America, the mills which require a long staple cotton would be seriously handicapped and probably faced with no alternative but to close down—

The Syndicate is at present discussing and arranging with Government regarding the details of the working

and it is hoped that they will be able to settle it at an early date

The Syndicate is formed for the purpose of co operating with Government in experimenting with American cotton in Sind and for ginning, pressing and supplying baled American cotton to the market either in India or clear hore

The Syndiente will creet a Gin Factory at Jacobabad and will gin the Lapas grown under Government supervision and will press and bale the same and rail it to Bombay or Karaelii or elsewhere for the purposes of sale

The Syndicate is formed to co operate with Government this year and in 1913 and 1914

The Syndicate will carry on the business of factory owners, cotton merchants, brokers, shippers or any thing else connected with the sale of cotton

The subscribing members to the Syndicate are at present -

N N Wadia, Feq
J F Bradbury, Feq
The Hon ble Mr H R Greaves
The Hon'ble Mr Maninohandas Ramin
The Hon'ble Mr Lazulbhoy Currumbhoy
Bomann D Petit Feq
N B Saklatvala, Esq

The Agents of the Syndicite will be-Messrs Greives, Cotton & Co

The registered office of the Syndicate will be-1, Porbes Street, Bombay

ANNINURI IV.

Note on the norling of the Sind Cotton Growing Syndicate prepared by Mr N B Sallatula

As requested at the last Board Meeting, I beg to submit my note on the worling of the Sind Cotton Growing Syndicate, Limited, for the season which has just closed

I shall not go over the grounds already traversed last year as in the correspondence between Government and Mr. N. Wadia, but try to put before the Directors how far the terms laid down then have been acted upon, and with what effect

1 It was resolved last year that the Shil arpur Factory for reasons well known should be closed for good. The machinery was disposed of by Messrs Greaves, Cotton & Co, and the buildings after some correspondence were talen over by Government for Rs. 5,000, although they had cost the Syndicate Rs. 8,700.

2 As resolved Messrs. Tata Sons & Co took over the immagement from 1st August 1916, and sent their purchasing agent and engineer to the district as soon as tho cotton began to arrive in Soptember 1916. Samples of kapas were sent to Boinbay immediately for valination. The same were examined by the D rectors, and the purchasing agents were asked to secure all the available kapas grown from American seeds. The started by making each payments for all the kapas brought to them, and this mode of payment was very much appreciated by the cultivators. In the beginning the price'puid for this kapas was Rs 180 to Rs 2 per maind over the desh variety. This was gradually rused till at the end the extra payment agreed upon was Rs 3 to Rs 380 more for big lots. The Director of Agriculture males out that for the American kapas 23 per cent more price was paid than for the deshi

As you will remomber, Government have kindly consented to share half the loss of the working of the Mirpurkhas Factory in consideration of the Sind American crop being only about 250 bales. In addition, however, to the ginning of the Sind American, the factory was able to secure orders for ginning desh; cotton,

and thus it was possible to minimize the working loss which is not expected to be at all heavy

The crop besides being poor in quantity left much to be desired in point of quality also. In 1913, this cotton was valued at the same price as Middling American. In 1914, it was valued slightly above Middling American and secured a premium of fifty per cent over deshi. In 1915, the premium secured was about 5 to 7½ per cent and in 1916 about 25 per cent. It is very likely that in 1915, American grown cotton had not a fair field, but in 1916, though the first samples shown were valued at the same price as Navsari, subsequent lots were so poor that they could not fetch any ligher rates than the one actually realised. All the Directors are agreed that the cotton was leafy and variable in staple and the feel was harsh, more like deshi than American.

The Director of Agriculture assures us that the seed was selected and there was no trace of mixing with deshi, and he suggests that the falling off in quality may be owing to the roller ginning of cotton. If that were so the cotton of former season should have suffered in the same way. I am inclined to think that the causes should be sought for in the heavy raise this season, the deterioration of seeds, and perhaps had giving

causes should be sought for in the heavy rams this serson, the deterioration of seeds, and perhaps big mining. My conclusions are that it is not worth the trouble of munitaring the Syndicate (1) if its factories have so little *kapas* to handle every serson, (2) if the quality of *kapas* is it is poor as it was this season, (3) if the factory is situated in such a notoriously unhealthy place that it is difficult to maintain an efficient staff, and (1) if the coming season is foredoomed to failure owing to the shutting off of the Jamaro Canal for necessary repairs

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The Synd cate was never intended to be a profit carning concern but it cannot, on the other hand go on losing money from year to year more especially as the object with which it was started is not being fulfilled Considering all these circumstances, it would be advisable to wind up the Company and sell the machinery when there is a fair prospect of getting a good piece

MR N B SALLATVALA, called and examined

4885 (President) The Sind Cotton Growing Syndicate is still in existence. We started with two ginning factories, one at Minpurkhas and the other at Shikai pur. The factory at Shikai pur was never worked and has been closed for good The Mirpurkhas factory has been closed this year as the Government told us that the Jamrao Canal was being closed for some repairs, and that, therefore, the crop of American would be very small and they would be able to deal with it on the Government faim. The question now before the Directors is whether, after the experience of several years, which has been so disappointing, it is worth while to go on or whether it would not be better in the interests of every body to wind up the concern. The reason for the failure of the operations has been that the assured crop that we were to get never materialized to any appropriate over the Wo only got a few hundred biles. I am not personally acquainted with Sind. As to the question whether, in the event of irrightion conditions being altered and there being an assured crop of American cotton, it would be possible for the Syndicate to resume work on the same lines, I am afraid our experience has not been encouraging. We should think twice before launching out on another scheme of the same nature. It would be some time before confidence could be re established.

4886 My personal view in regard to adulteration is that adulteration has been encouraged because the consumers so far have not sufficiently discouraged it. The cultivator has felt that he did not get the price for long stople cotton that he had a right to expect. Mixed cotton has fetched a better price proportionately,

therefore it has paid to mix
4887 We are very large users of Punjab American cotton. My own experience is that even pure Punjab American from Lyallpur is not up to the best of some of the indigenous cottons such as Navsari and the best

4888 (Mr Wadia) We bought a factory at Lyallpur recently from a member of the pool there. Our buying agent may have given an undertaking that we would join the pool but as a firm I don't think we

It is not our policy could have done so

4889 (Mr Hodgkinson) I am quite sure that the growth of pure cotton would be encouraged by paying a lugher premium than we have been paying so fur. We can afford to pay a higher premium. I am speaking of my own firm. The trade generally is of another opinion. We have secured every market in order to get pure cotton and we try to pay the best price we can afford to pay. The trade as a whole does not pay as high a premium as it could afford to pay. It is better to get pure cotton and pay a higher price for it than to get this adulterated cotton. Up to the present year, we have always bought the purest possible of the last and the present part and the pay and cotton for country country. cotton but this year conditions were different and it paid us to buy mixed cotton for our lower counts This year the prices have been abnormal I may mention that Berai cotton which is short stuplo sold at Rs 640 whereas we could buy mixed Pinij ib American at Lyallpur at Rs 600. We do our own mixing for manufacture Wo have not been very large buyers of Cambodia cotton curselves but the little that we bought at the beginning, came to us in a very good state and it was then a better cotton than Lyallpur One gets all sorts of cotton now under the name of Cambodia

4890 (Mr Roberts) As to the conditions under which the cultivators were paid in Sind, I have mentioned in my written evidence that the condition was that half the price should be paid at once and half retained until we received the Liverpool valuations. This was found unacceptable because the cultivator like I to have the whole amount at once. He did not mind if it were a little less or more provided he got the whole of it at once. Lest year we paid the whole amount straight away. There was no difficulty in paying in actual rupees. I do not think they were paid in cheques. They were peid in each teken from

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1891 One of the chief difficulties in regrid to American cotton in Smd was undoubtedly the nirigation But my impression is that the chief difficulty was the seed difficulty There was never enough difficulty seed I would attack more import need to the want of seed than to the irrigation difficulty. I eaunot s y what the reason for the low premium was in 1915 as we were not inalleging the affects of the Syndicate that

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Beiar jan cotton In my opinion, Punjab American is worth more than it is getting now

Mr P D PATEL of Messrs Patel Bros, Bombay

Eximined it Bonbiy, Jinuiry 31st, 1918

Written statement

I -AGRICULTURAL EXPLRIENCE

4894 (Preamble) This question has been engaging the attention in India for a considerable time past It may safely be said that for thirty years, off and on, soveral experiments have been made, ample results recorded and valuable lessons have been learnt. I am not aware of any scrious attempt on a considerably

[Continued

Bombay]

It is not expected that in the first years working there will be any profit and the fact to be lept in view is that it is necessary to supplement the existing supply of long staple cotton and to co operate with Govern ment in their endeavours to produce the best class of cotton available. There have been miny references both in the press and elsewhere to the searcity of long staple cotton, and the Directors trust that everyone interested in the cotton crop of India and the cotton industry will support the scheme and do their best to

make it a snecces Gevernment are importing seed and will supervise the sowing growing and everything in connexion with it and this Syndicate is formed to assist Government in their object and also to provide the best means of marketing the crop and assuring the cultivator a reasonable price for his produce, and supplying the local mills with the long staple cotton which is needed. The large importations of American cotton this season preve that there is a market for good class cotton in India, and should there be a repetition of this years short local crop coupled with shortage in America, the mills which require a long stuple cofton would be scriously handicapped and probably faced with no alternative but to close down

The Syndicate is at present discussing and arranging with Government regarding the details of the working

and it is hoped that they will be able to settle it at an early date

The Syndicate is formed for the purpose of co-operating with Government in experimenting with American cotton in Sind and for ginning pressing and supplying baled American cotton to the market either in India or elsewhere

The Syndicate will erect a Gin Factory at Jacobaliad and will gin the Lapas grown under Government supervision and will press and bale the same and rail it to Bombay or Karachi or elsewhere for the purposes of sale

The Syndicate is formed to co operate with Government this year and in 1913 and 1914

The Syndicate will carry on the business of factors owners, cotton merchants, brokers, shippers or any thing else coanceted with the sale of cotton

The subscribing members to the Syndicate are at present -

N N Wadir Fsq J I Bridbury. J I Bridbury, Teq The Hoa ble Mr H R Greives The Hon'ble Mr Manmohandas Ramp The Hon'ble Mr Lazulbhov Currumbhov Boaring D Petit, I'sq B Saklatvala, Lsq

The Agents of the Syndicate will be-Messrs Growes, Cotton & Co

The registered office of the Syndicate will be-1, I orbes Street, Bombay

ANNENUER IV

Note on the working of the Sind Cotton Growing Syndicate prepared by Mr. N. B. Saklativila

As requested at the last Board Meeting, I beg to submit my note on the worling of the Sind Cotton Growing Syndicate, Limited, for the season which has just closed

I shall not go over the grounds already traversed last year as in the correspondence between Government and Mr N N Wadia, but try to put before the Directors how far the terms lad down then have been acted upon, and with what effect

It was resolved last year that the Shikarpur I actory for reasons well known should be closed for good The machinery was disposed of by Messis Greaves, Cotton & Co, and the buildings after some correspondence were talen over by Government for Rs 5,000, although they had cost the Syndicite R4 8 700

2 As resolved Messrs Inta Sons & Co tool over the management from 1st August 1916, and sent the r purchasing agent and engineer to the district as soon as the cotton began to arrive in September 1916 of kapas were sent to Bombay immediately for valuation The same were examined by the Directors, and the purchasing agents were asked to seeme all the available lapus grown from American seeds They stirted by making each payments for all the kapas brought to them and this mode of payment was very much approciated In the beginning the price paid for this lapas was Rs 180 to Rs 2 per maund over This was gradually rused, till at the end the extra payment agreed upon was Rs 3 to big lots. The Director of Agriculture makes out that for the American lapas 23 per cent by the cultivators the deshi variety Rs 3 8 0 more for big lots more piece was paid than for the deshi

As you will remember, Government have I indly consented to share half the loss of the working of the Mirpurkhas Lactors in consideration of the Suid American crop being only about 250 bales. In addition, however, to the ginning of the Sind American, the factory was able to secure orders for ginning deshi cotton,

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The crop besides being poor in quantity left much to be desired in point of quality also cotten was valued at the same price as Middling American. In 1914, it was valued slightly above Middling American, and seemed a premium of fifty per cent over deshi. In 1915, the premium secured was about 5 to 7½ per cent and in 1916 about 25 per cent. It is very likely that in 1915, American grown cotton had not for field but in 1916. a fair field, but in 1916, though the first samples shown were valued at the same price is Navsari subsequent lets were so peer that they could not fetch any higher rates than the one actually realised All the Directors are agreed that the cotton was leafy and variable in staple and the feelwas harsh, more like deshi than American

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My conclusions are that it is not worth the trouble of maintaining the Syndicate (1) if its factories have so little kapas to handle every season, (2) if the quality of kapas is as poor as it was this season (3) if the factory is situated in such a noteriously unhealthy place that it is difficult to maintain an efficient staff, and (1) if the coming season is foredoomed to fulure owing to the shutting off of the Jamrao Canal for necessary repairs

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4891 One of the chief difficulties in regard to American cotton in Sind was undoubtedly the irrigation difficulty. But my impression is that the chief difficulty was the seed difficulty. There was never enough seed. I would attach more importance to the want of seed than to the irrigation difficulty. I cannot say what the reason for the low premium was in 1915 as we were not imaging the flairs of the Syndicate that year. We only took them up in 1916

1892 In Bombay the mills buy both in dy and future cotton. There have been more future contracts during the last two of three years than there were before. They buy on the station names as a rule Most of them buy ready cotton on the spot at Colabrand there they are guided more or less by the name of the cotton. I am afroid they attach more importance to class and the name of the station than to staple. That is why we get at Colabrand think, minety per cent of mixed cotton. From the spinner's point of view a standard for Indian cotton based on staple for substantian purposes would be welcome if such a system were found practicable.

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Mr P D PATEL of Messrs Patel Bros, Bombay

EXAMINED AT LOUBAY, JANUARY 31ST, 1918

Written statement

I -AGRICULTURAL EXPERIENCE

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Mr P D PATLL

[Continucil

good so do bused on seachthe grounds having been in the Aor am I am are of reliable and detailed literature on the subject. Most probably Government has accumulated a considerable amount of knowledge on the subject, and, most probably it must be lying builed in the mountains of Government records, as a tollen of memory to its several authors and as food for the norms

4895 Provision of State facilities for agriculturists—Our Government can well take a leaf out of the methods of the Government of the United State of America, in regard to the State facilities for the agriculturists. When I visited America in 1910, I midd invest a quantited with these methods and, from my experience of 21 years in the cotton trade, I may any there is are those for improvement in the inaterials and help our Indian Government undertakes to afford to the Indian agriculturity. For instance, in every important cotton district in America there exists a Covernment farm, where the local labour is employed, not to run the farm on a commercial basis, but to impart practical executibe knowledge in the cultivation of cotton. The results obtained and the various lessonale and a on each east exceeded, printed, and creatated gratis, amongst those interested in cetton. Such an organisation, on right lines, will seek to lower the cost of production, by employment of countile implements in place of aboriginal, and so increase the margin of production, by employment of countile implements in place of aboriginal, and so increase the margin of production.

profit 4896 Acclimatisation of American varieties in India — There is now no doubt that Gossiphum herbaceum, to which the Mid American quality of cotton belongs, did not originally belong to America, is spontaneous in India and was introduced in America from the eastern coast of India What untold wealth America by its scientific and economic methods has achieved from cotton needs no narration Mid American cetton was a native of India, it requires no tretch of unagination to concern the idea of its growth in India From the results up to now obtained from the experiments of the cultivation of longer stapled cottons mado in Indi , it has been proved that the outturns were much lower than what are I nown to yield in America under favourable conditions, but it was also observed that the low outturns were due to adverse on ironment and that they could have been better by affording the varieties experimented upon the favourable conditions essential for full development. Now, as to quality, some varieties grown from American seeds yielded good, bad indifferent cotton. The best yield incre of the finest in colour, very i oft in texture, which could be used for spinning to: 50s, and 60s. Other vinetics yield quality good enough for spinning These yours we migre tidem ind for mills which propose to limit their output to cloths of finer I think that with the staff experience now available in the Agricultural Department i, scrious experi monts should be overied on for a family long period in the veclinistication of Americ in varieties especially of the newer American types with shorter period of growth than some of the older one, and that this should be done in overy part of India

(2) At the same time, I feel that even with all this, it is only where you can get a longer growing period—either through early sowing with irrigation or through special suitability of climate—that these exotic types are likely to succeed and pay the cultivators. In Khandesh, Berge Central India, Rapputang and the Decean as far south as Sholapur, I do not think the sowing season can be made long chough he either of the above methods to make growing the exotic long taple cultions pay as compared with the present varieties which grow quickly and yield well. The same probably piphes to Northern Gajarat. In other parts of India, there are reasons to suppose the exotic cottons will grow and pay well. In North India, this will be by early sowing under irrigation. In the existent part of the Central Province, and in the whole of South India as the South Decean (including the present "Westerns" districts) there seems re son for supposing that exotic cottons of special types may grow and pay well as the climate recens not unsuitable. The special type will need a lot of acclimatising and testing, but it is a outh while to make very careful experiments.

4897 Encouragement of short stapled cotton in certain tracts—As regards the other districts—Khandesh Bergers, etc., as named above—I feel (1) that no American typo and hable is suitable and Cambodia is doubtful, (2) that the present existing long staple types (like the band of the Central Provinces and the Godavari valloy) yield so badly that the cultivitors do not want to grow them, (3) that unless some indigenous type combining high yielding and long staple on be developed,—which is not impossible,—the sowing of cotton much longer in staple then the present types is not likely. The cotton industries of India, if multiplied, could not fully supply the needs of coarse cloths for clothing the majority of the population. For the mannifacture of coarse cloth, lower counts of yian spin from short stapled cottons would do. For this purpose the agriculture of short stapled cotton should receive every encour general. All energy should be directed towards increasing the yields from the same energy. Thus India's wants are difficult to be supplied by Iudia herself. When I come to think of India supplanting American cotton in Lingland and other countries of Europe, I am simply staggored by the idea.

4898 Conficing interests of cultivities middlem is in the provest yield the highest ginning percentage and the longest staple. Here one meds with the difficulty that the interests of the cultivitiers, the middle men, and the millewriss nowing in To the cultivities the list consideration unless the difference in price is large enough to make up for smaller yield and lower growing percentage. To the middlemen, the cetten which gives the highest ginning percentage is best unless the lint price of the higher staple is so much higher us to compensate for the difference in I it yield of the kapis. To the millowner, the extrem which has the longest staple is the best. So that the cultivitors will grow, whatever you do, the cotton which yields best until the difference in price is great enough to compensate for lower yield and additional trouble, and a similar consideration applies to the middlemen as far as 5 mans, percentage is concerned. But a sufficience in price e-muot be expected unless the longer staple cottons are pure

4809 Necessity for Indian cotton spinning higher counts—If India can grow cottons that can be spun up to 40s and 50s, it will not only meet a great part of her industrial requirements but save to herself an immense amount of wealth that is drained off by her imports of these counts for her requirements. The full sorce of these facts could be gathered by a rowiew of the following figures which are for the period of two decades 15.97 38—

Quantity Value in Crores

1bs Rs
58,291,000 35

23

Total import of cotton yarns

Mr P D PATEL

[Continued

| X arns impor | ted | - | | Percentage of total |
|---|-----|------|---|-----------------------------------|
| No 20 and under 21 to 25 26 to 30 31 to 50 Above 50 | | | lbs 4,071,290 3,378 109 9 195 518 36 688,057 2,512,669 | 7 2 6 4 16 4 65 6 4 4 |
| | ~ | Тотм | 55,845,643 | |

The figures for the quinquennum 1909 10 to 1913 14 are as under I have selected these figures for the obvious reasons of the shortage in imports due to the present war -

| The yain figures_are — | | | |
|--|-------|----------------|--|
| , | | | Percent age of total in the quinquen num |
| | | lbs | |
| No 1 to 20 | | 1,375,000 | 3 27 |
| 21 to 30 | | 4,374 000 | 10 47 |
| 31 to 40 | | 23,213 000 | 55 55 |
| Above No 40 | | 7,602 000 | 18 19 |
| Unspecified descript ons | | 5 230,000 | $12\ 52$ |
| | TOTAL | 41,794,000 | 100 |
| The figures for 1916 17 however, are also given here — | | | |
| Total value of imports of yain | | Rs 4,04,89,000 | |
| The analytical yarn figures are - | | | |
| | | | Percentage of total |
| | | lbs | |
| No 1 to 20 | | 1,304,000 | 44 |
| 21 to 30 | | 1 970,000 | 67 |
| 31 to 40 | | 16,018,000 | 54 2 |
| Above No 40 | | 4,886,000 | 166 |
| Unspecified descriptions | | 5,352 000 | 18 1 |
| | | | |

(2) Taking the figures of 1897 98, about 95 per eent of the yarn imported was of No 50s and below and only 44 per eent of the imports was above No 50s. The sum of these imports totals up to 3½ erores of rupees in a year. Taking the average figures of the quinqueniums 1909 10 to 1913 14, about 875 per eent of the yam unported was of No 50s and below and only 12 5 per cent of the imports was above No 50s. The um of these imports totals up to 418 crores of rupees per annum. Again, if I take even the figures of 1916 17, the imports are valued at 4 crores, about 11 per cent of the total are yams No 30 and under, 54 per cent of yams No 31s to 10s. If to this demand be added 72 crores of rupees to which value England imports Mid uplands every year from America and that a good part of these imports is for spinning counts from 20s to 40s, then alone it will be seen how extensive is the field that hes before India if she goes about the matter in the light earnest way. Even if India can produce cotton good enough for 30s the benefit Even if India can produce cotton good enough for 30s the benefit

29 530,000

100

TOTAL

neering to her would be medeulable
4900 Suitability of Indian conditions for growth of American varieties —There is nothing reprignant in the so I and elimate of India for the growth of naturalised American cotton of long staple var eties. India can, on an average basis, give the cultivator a sufficiently long growing season for the plant to mature and clear weather of about two or three months for the picling serson free from rains and clouds India can supply copious and cheap labour Morcover, the climate of the cotton growing states of America is similar to that ef Ind 2,-2 earcful study of the meteorological tables of both the countries during the seasonal months must convince scepties about it . If there is a difference, it orrs on the right side Indian climate is comparatively forcing and produces early maturity which means what is lost in quality thereby is made good by the quantity

(2) A few points based on experiments made over extensive periods of time are necessary for the culti-

vation of American cotton in India

(a) Tal mg the active growing periods of cotton in different places such as Egypt, Texas Southern Louis and, Mississippi bottoms South Carolina Coasts, Pine levels of South Carolina and Georgia, North Arkansas Cawinpore, Tinnevelly, Bioach and vicinity, the intervening period between sowing and picking ranges from 102 to 195 days Experiments made at different stations prove that the growing period can be lengthened by early sowings

(b) The points to be boine in mind during the time of sowing are, by being too early, the picking season may have commenced early and, by being late, the pelings may not commence curly enough. The time of cowing a linowledge of the distribution of the rainfall, and the approximate date by which cold weather

fully etain October in a locality are a u eful adjunct in deciding as to sow early or late

(c) The season for planting the exotic is the season for planting the indigenous variety and soils which are unsuitable for Indian cotton are equally unsuitable for the exoties-places which have a heavy runfall and ne thelly populated

(d) Great patience, eare and observat on are necessary before a foreign variety becomes acclimatised and

naturalised

(e) The standard of the staple should be lept up by selection of seed, tillage, manuring space allowed to each plint, and interculture

[Continued

Bombay]

(f) If these factors are carried out, and Indian cultivators made well versed in them by instructions in

medel farmers in each district, the day of Indian cetton would indeed be a glerious one

(g) The first stage in the pickings is that of the selection of seeds for next season plants that have the largest, best formed and most numerous holls should be picked first and separately hand ginned and stored for sowing next season. The eye will readily detect these plants. Such a system should be taught to our planters throughout India, and should, of course, improve the seed stock to a high degree. Such an attention to bread details is well in more than its cost and would give ample reward for any additional labour that needs be spent thereon.

II -- COMMERCIAL ASPECT

4901 Agricultural conditions—What happens at present with the Indian farmers who are the least prespecies of the world's farmers may be summarised as under. When the crop is standing in the fields, the farmer estimates the quantity and takes an advance thereon from the usurous banker, called palap at an average rate of Rs 60 per khandi lower than the then ruling rate in the Bombay market. When the cetten crop matures, the Government dues are due to be collected. This insurmountable obstacle in the way of the farmer compels him to dispose of his product at a much lower price than he would otherwise obtain were he to obtain any sort of financial relief either from the Government or the banks. A conflict of wits and interests follows. The vendor strives to conceal the shortcomings of his merchandise, the purchaser strives to exaggerate them. As the latter is shilled at the business which is his daily occupation, the probability is

that in the end ho has the best of bargain

4902 Necessity for constitution of State Banks—The monetrily circulation of the country is made available to business enterprises largely through the banking system now obtaining in the country. The loans of foreign and indigenous banks are granted to Indian industries and trade and they are even on the inererse, but the circulation of money is not proportionately on the inererse, but it is woefully poor. The facilities which they obtain are denied to the agriculturists in our country. In the existence of such a state the poor farmer, after the crop is marketable, sends his cotton to his agent for sale and pay i him a consideration for his trouble. The very agent of the farmer is usually the agent of a purchasing house in Bombay, and what loss the farmer is made to suffer could be easily gauged without any effort. Thus the farmer is a victim of the usincer, the Government, and the commission agent. (2) The extent to which the eotton agents have interfered, and the mischief which this interference has produced are so reinarkable as to make thoughtful men wonder how the cause of cotton agriculturists could advance in the face of such repeated obstacles if there is any well to do condition, it is owing to the ability which has been displayed by different Governments and to the sagrety with which the exist of using have been pallated by such legislation as the Decem Agriculturists' Relief Act and facilities by co operative societies.

Decenn Agriculturists' Relief Act and freshties by co operative societies

(3) No Government can force any banks to afford financial support to the agriculturists. The only remedy lies in the institution of State Banks for their relief and the need of legislation to collect Government dues after the crops are sold. When we examine the agricultural history of the evaluated countries of Europe we find that, but for the introduction of co operation, European and American agriculture would have been

almost at the same level as our Indian

(4) The English lundlord has his squire to help him. The European and American farmers have banks and co operative societies to give strength to his feet in standing up for a fur place for his product. The Indian farmer has to face the muse of the usurous banker, the tax collector, and his double faced commiss.

sion agent

4903 Co operation and tenure of land —The common remedy for the improvement of agriculture generally and that of cotten in particular is said to be co operation To me the idea seems to be a half digested idea India has no other resource than agriculture and the people of India, having no other resource, rely on it as alving In fact agriculture is the breath of their nostills (when I use the term "India," I mean of course the greatest percentage of the population) Of course co operation which means financial and intellectual help would really go a great way. But the question is, can co operation flourish in the country so long as our laws relating to land owners up and customs relating thereto remain unchanged? For co operation to practise and succeed there must be freeholders. Co operation withers where the land is hired and not owned. If Government can introduce some form of legislation, by which any native or naturalised person, able bodied, of immerchable character, with a four years' experience in actual farming work after the age of eighteen years, -in fact one who has earned his living by farming and has some resources of his own to fall back upon ern become the freehold pessessor of land then and then alone can co operation tale root in India not going into the actual details of such a legislation, but should a sample be necessary for the introduction of state small holdings, the only Act of the sort, for aught I I now, that exists in the world is the Danish Small Holding Law of 1909. The unit of each small holding is a matter of detail. Then every allotinent of land should have free access to the public road and a legally secured access to water from some place in or out Government may charge a far rate of interests and the management of the estates may entrusted to local committees disputes between the latter and the frecholders to be ultimately decided by On the basis of such a foundat on of freeholders and for permanent tenants, co operativo societies could be established for any mortal purpose Every farmer can then become a member and all may have equal voice, vote or legal influence. These societies will help the farmers in the use of better and scientific instruments for tilling and pleughing the lands. They will help in the attainment of the best results in growing They will help them in earting their produce free of charge to the best and nearest market will help the farmers in obtaining for their produce the best price. Such a combination would mean strength Even then the farmers can have what are called "Control Societies" to keep accounts by means of careful registration of the yield of each field, of the amount of cotion in the preduct and the relation between the yield and the expenditure with the object of claninating inferior varieties in future One of the best agri cultural countries of Furope is Denmark It is a small country with an area under ten million acres population of 2 590 000 works out at 170 per square inde and thus it is a more crowded country than either Sectiond or Ireland It is also a fact that no other country in Europe has made a more rapid and certain advance than this small country of poor, sandy, and ind fferent soil, of insular position and with climate not of the best and perpetually exposed to tearing gales of the seas and the inclemencies of winter from the frozen Baltie. In spite of these drawbacks, a farmer of Denmark-makes more out of a hundred acres than enther the landlerd or the tenant or both of them together expect to receive from a two or threefold area in India. In spite of these drawbaels. Denmark extres on an enormous trade valued at some millions of

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Mr P D PATEL

[Continued]

pounds in agricultural produce and England is her best buyer The country appears to be in good financial state, the revenue has invariably exceeded the expenditure and perhaps it is the only country in the world able to write off steadily and gradually a part of her public debt.

(2) In my opinion, such a prosperous state is due to co operation and the success of co operation is due to the laws of land. The conclusion is that, in India a purely agricultural country, co operation is necessary to a full measure of its success, but as only frecholders or farmers holding permanent tenancy can hold fact to co operation, the present law and customs regarding land tenure are not conducive to co operation on a wide extent

III -- Statistica

4904 (33) Improvement of cotton forecast -I consider the cotton forecast as at present published

18 for from being accurate and consequently of not any material utility to the trade in general
(2) As I have said above, during my 1910 tour through America, I had an occasion to visit the Govern
mental Agricultural Bureau of cotton at Washington
This Bureau amongst its numerous activities publishes monthly, commencing with June each season, its reports on the condition of the American cotton crop per od of growth of the cetten erop is from May to October - During this period spinners, speculators games ters middlemen all unite in an organized effort to find out what would be the size of the growing erop learn the weather condition of the crop issued by the diligent federal Bureau with the help of thousands of A specimen of such a card is given here. They report every step of the cotton plant's growth, every strict of worms or weevils every hot wind or cool might day by day. Then the trade will chronicle tin ned observers run, every ittael of worms or weevils every hot wind or cool night day by day. Then the trade will chronicle duly receipts at primary mail ets and receipts at ports. Then the output of the gins will be reported by the Burean bi monthly beginn ng from 9th September with comparative tables of preceding years

Specimen of the Card

Please post this every succeeding Monday of each month till the end of October

n noT I What is the acreage devoted to cotton acres against last year II Do you notice any improvement in the method of enlityation? III Any change in seeds for planting IV Ramfall during the week under review Number of days run V Effect on growth VI Any damago by insects VII Are plants fruiting well? VIII If any shedding or rust in your place Give reason for same

(3) The tride determines on this report, the condition of cotton 100 per cent represents normal full growth and vitality. We have also to learn the highest yield per aere with 100 per cent condition. American they tale 275 lbs as the hypothetical maximum. It may be explained that for estimate growth and vitality It may be explained that for estimating the with the October condition so as to give the latter a preponderant we glit. It has been found that theoret cal full or 100 per cent yield per acre for the pist fifteen seasons is 275 pounds or 55 bale of 500 lbs. net. The the mile of 100 per cent year per receiver the pist intern sersons is 275 pounds or 35 male of 500 lbs net. The season's condition factor is applied to 275 lbs, and the result found applied to the revised acreage, giving the indicated yield. For instance, in 1916, the condition reports from Jime to October were 77.5, 81.1, 72.3, 61.2, and 56.3 average 61.6. This averaged with the October condition of 56.3 gives a working factor of 58.9. The theoretical full yield being 275 lbs, 58.9 is 162.07 pounds, and this applied to the acreage of 36,052.000 gives a total indicated copy of 11.685,895 bales of 500 lbs, net each against actual 11,364,000 bales. The close proximity between the total indicated and the actual is a self-evident commentary on the exactness and correctness of the Bureau figures, on which the whole world relies

4905 (34) Improvement of other statistical information —The cotton press returns are a publica tion simply issued to justify the existence of the Government Department that is responsible for its publica I can produce some specimens, which would prove that the accuracy is its least feature. Unless Gov. erument can give in these returns figures pertaining to each and every press, the publication will retain the value it is now estimated at

MR P D PATTL called and oxamined

4906 (President) It will be seen from my written evidence that the bulk of India's import of cotton varn runs between 30s, 31s to 50s counts. In India, Cambodia carries us up to 40s and so does Bourbon from the Timeselly district but there is only a small quantity of the latter. There is nothing which goes beyond 40s. This year's crop of Punjab American is very good but last year it was very much mixed in staple and some of the mills found it very unsatisfactory. We may get up to 30s out of it. Last year it could not have gone beyond 20s warp. It is very poor in tension as compared with Cambodia.

4907. I have a fairly extensive acquaintance with India. I do not consider that the local mills are offering

any very great encouragement to long staple cotton The cotton selectors do not know their business very well Any defects in selection detected in manufacture are neither brought to the notice of cotton selectors nor recorded by the mill managers for a guide to future. Thus these defects get buried in cotton waste bags Scheeters do not know the production wanted, production at present, production possible and production previously obtained. These are great drawbacks

X General Remarks

4908 Another point is that when a merchant sells long staple cotton to a buyer, ie, to a mill, tho mill wishes to get the arbitration of the Bombay Cotton Trado Association with the idea of seeuring arbitration Arbitration is most unsatisfactory both from the point of view of the buyer, and the seller Indirectly it encourages sellers to mix thou cotton with a quantity of unequal length and unequal strength of fibres because some sort of allowance is always made and so the seller mixes with short staple because it always gives a better colour in order to escape as elicaply as he possibly can in arbitration. The arbitrators do not pay much consideration to the merit of the staple

4909 My personal view is that the Cotton Trade Association should be organized on lines of the foreign exchanges and associations Up to four or five years ago, the Bombay Cotton Trade Associat on had no rules for spot cotton and there are up to now no sub committees. I think that the trade wants re organization of There are now sixteen Directors of the Bombay Cotton Trade Association who the e bodies very badly more or less, have been vested with the full control of the tride. Up to list year there were nine Directors only. The number was increased to sixteen in consequence of a row between the Cotton Tride Association and the Cotton Exchange

4910 As regards the financing of the agriculturists, the state of affairs must be well I nown to the Com mittee who have travelled up and down the country and must have seen how very poor the cultivators are and how more imperative it is that the Government should establish ee operative societies to help them do believe in co operation as a principle but it works too slowly. More rapid development is wanted base tallen inventorism. Rider Haggard's book. There are land bands in Ireland too

to believe in so operation as a principle out it works too slowly more reput development is written if there is a line of the standard for the on the American exchanges, it would simplify matters and it sould make the decisions of the arbitrators more These standards would be for class only. As for staple let t be defined properly as in America The results of arbitrations at present are very uncatisfactory to the trade in general, Unless there 1 a very drustic and radical reorganization of the to ide there is no great hope of improvement

4912 (Mr. Wadia) I am a broker for Pallis in addition to my own independent business up country I handle on behalf of my constituents all sorts of cotton mostly Provel.—I have my own ginning and pressing factories in the Satara distinct. I handle all the sorts of cotton that Rallis mostly trade in Non a days, Rallis sell more in India as owing to the want of freight export is small All Rallis' selling business is done The arbitrations here are faulty and unsatisfactory as the I nowledge of arbitressis. Rallis' people arbitrate at least very seldom. There are no good arbitrate. at present through me alone deficient. None of Messis Rallis' people arbitrate at least very seldom. There The share holders in the Cotton Trade Association have the right to arbitrate trators is deficient I maintain that there should be sub-committees of the Association as there are on European Eachanges - I am not going for any one personally. I am merely saying what is my general feeling. The Directors are all good friends of mine It would be quite satisfactory if there The arbitration rules are all right but the results are misatisfactory were pr d relatively as there are on the Bremen Frehange. On the New York Evelrange, the arbitrators are not appeared by the buyers or the sellers. They are appointed by the Committee and they are changed twice a weel. They are appointed in rotation. This was the system in 1910 but the rules may have been I have no idea how things are done in Liverpool but I think that the lines are the same elinged since then as those of the Amer can Exchanges I would suggest full time arbitrators who have no concern at all with the business in hand and are appointed by the Board of Directors, not by the buyers and sellers men who can arbitrate on different varieties, certain people for example, can arbitrate on Coconadas, certain others on Immevellies and certain other on Westerns. They cannot arbitrate on other styles. Then there are men who have been recurrented to short stuple cottons. For the general styles of Oomras, Khundesh and Bengals arbitration is not so very difficult because these cottons are sold on class. With staple cotton, arbitration is more difficult. There is a very small quantity of staple cotton. What we get is generally a Of good staple cotton only about seven to eight lakks of bales comes to Bombay cotton from Wadhwin, Virangam and Kadi long staple cottons. The best experience a man can have for judging stable cotton is by buying and selling it himself. He must deal in it personally and have a certain I nowledge of up country markets. My point is that the men who deal in Bengals, Khandesh and other short reaple cottons should not be asked to arbitiste on long stude cotton. For long stude cotton a better class of arbitistors is required. The bull of the long-taple cotton which comes to Bombay is limited by four or five big firms. These hims would supply the best abstrators but their arbitration should be blind i.e., without exposing the buyer and seller. They have some I nowledge of the up country markets. I do not say that they are the only people who are qualified to arbitrate on long staple cotton but they are the best Let certain arbitrators be set aside for long staple cotton and others for short staple cotton. There is a blind าppาปm Bombis The appeal committee does not know who the buyers or sellers are as the names are not given to them. The dicision on appeal is all right. My objection is to the first arbitration. The arcommittee sets the matter right in many cases but why not have good arbitrators in the first instance The appeal I now of cotton that had been rejected on arbitration. The same identical lots have been tendered subsc quently and have been passed. I could show instances from my books to prove that. Arbitration depution the human eye. Cotton at 11 o clock in the morning looks different at 4 o'clock in the afternoon Arbitration depends

4913. I our tell a mixture of deshi cotton in long style cotton when it is above ten per cent, but not when The percent up of deshi in the cotton that we get in the mail et is much more than ten per cent but the illowances made for it are not enough That is my point I want the rules made streter in the matter

of admixture of long and short staple eotton

4914 Cumbodia has much stronger stuple than Punjab American, as to eles Punjab American is better Cumbodia has a cicamy tint Punjub American is better in coloni but much weaker in stuple American is very exceptional this year, it is very uniform in steple. Last year it was very bad. There must be about five to s x thousand bak of Punjab American on the mult. Cambodia is always uniform in steple. It is gonerally sold on type. The Lauppur Cambodia is altitle shorter than the Tinnevelly Cambodia in studie but the best types of both are uniform. The spinner pays not much less for mixed than for uniform steple. This prefect on for mixed steple does not encourage the tried in uniform steple cotton.

4915 (Mr. Hodglinson) There me to associations in Bombry, the Bombry Cotton Trade Association and the Lomby Cotton Evelings - The r listory is as tollows - When the Luropean Eveliange Association was formed the lindern element was asled to talle shares but they refused to do so for certain reasons on the Indian element formed the rown a loc it on called the Cotton Exchange. The rules of both Associa tions are more or less the sche-Lust year there was a difference of opinion between the English and the Indian merchants because the latter wanted a voice on the Bombay Cotton Inde As cent on and now they have a representative on the Bombay Cotton Inde Association. Specific contracts are made under the rules and regulations of the Bombay Cotton Finde Association. The rules of the Cotton Inde Association. and the Cotton I vehange are the same The only difference is that there are Indian arbitrators in the

4916 Mill owners could pro a higher premium than they are doing at present for long at iplo cotton There are a few mills who well understand their business but the others are mostly guided by their cotton Bombau 1

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selectors and then cotton purch iso busine 3 is very bidly conducted. Then selectors enunct judge strength or the proportion of admixture. It would help the cultivator a lot if a better piece were paid for long staple eotton

The INDIAN MERCHANTS' CHAMBER AND BUREAU, Bombay

EXAMINID AT BOMBAN, FEBRUARY 1ST, 1918

Written statement

- 4917 Division of subject -I ioni the series of questions suggested the main object of the inquity seems to have been directed towards considering the means for (1) a better and wider supply of long staple cotton and (2) the prevention of fraudulent mixing and damping of the same
- (2) We shall here summarise our views in a general way, talling the two features as our basis for consderation of the means to be employed
 - (3) Under the first head of a better supply, the following topics require consideration —

(1) The supply of proper seeds to the cultivator

- (ii) Whether the present ires under cultivit on of long stiple cotton is sufficient to improve both the quality and the outturn and what would be the effect of an increase of rice
- (11) The question of restricting the excluse of lapus and cotton from one station to another except to ports or stations of consumption
- (10) The question of restricting enting of some from one province to mother except for actual consump
- (v) The tendency of the cultivator towards a my short staple cotton seeds became the return to him is better

Under the record held would come such questions as-

(i) The licensing of factories and compelling them to stemp every bale and docra that leaves the r premises with their distiguishing mark

(ii) The prevent on of watering and steaming cotton
(iii) How to restrict the use by the cultivator of loose and construct seads produced during ginning
(iv) The practice of mixing hand gamed cotton with machine ginned

(v) The practice of filse pickin,

- 4918 Means of securing a better supply of long tipl cotton —(i) Supply of sed —Generally the cultivator take an a seeds from the summer factories. These are in admixture of both long and short could only be remedied if the proper and right I and of seed is applied to the cultivator. Even with gur, the seed from a hand gur is better than that from a machine gur is the ends no not cut in the former
- (2) (11) Sufficiency of area under long staple cotton—The present area under cultivation of long staple cotton is quite rufficient to meet the demand if properly improved. Any extension of area would not be describle under the present exeminst incer, and, if done it the cost of food by uns, would not be beneficial or advisable
- (3) (iii) Architection on transport by raid —Though of tapus cotton and the fly and droppings of mills in any form produces deterioration of quality by encouraging the practice of mixing inferior with the superior grade. This is a point of vital interest in the matter of keeping up the staple of each place and restriction ought to be legalised. Leceptions should only be made for bone fele consumers and in cases of destination portq

(4) (iv) Lestriction on transport by cart —The same applies to the earting of lapse and cotton from one province to mother—is for example. Is hundesh Inputs wis being and is carted down to the Nizum and Bern markets and has thus become the main cause of the deterioration in these districts Therefore provincial restriction is need ary and ought also to be legal sed

(5) (v) Attitude of cultivator to long staple cotton —More lately the tendency of the cultivator is to aids using short staple cotton seeds because his could get a better return. This question therefore, is one which

could be better solved by in expert in agriculting

- 1919 Presention of initing and damping (1) Licensing of factories—Some factory people are in the habit of colluding with the initial initial territ to findulent prictices. This evil cannot be remedied inflers factories are made to under tand their responsibility by the issue of licenses to them. No factory should be refused a license unless and until it is proved to be practising fraud of any kind. This could be ascentained if factories are compelled to stamp each and every l'ale or *ducra* that leaves their premises with their distin guisling mark. The fraid could then be truced to the origin it source and should be reported to the respon sible authorities appointed for the purpose with the proper certificates from responsible to de bodies proving the same. The unflorities, in such ease, in satisfying themselves and training the fraud fully to the factory mily use their discretion in warning off the culput or discontinuing the liceuse for a year or two according to the gravity of the offence
- (2) (11) Prevention of vatering and steaming—Means should be taken to stop this abuse totally—Licensing of factories will easo the difficulties in stopping this

(3) (111) Presention of mixture of loose and crushed seeds -- This question will be solved by the licensing

of fretories suggested above. Unless that is done, this ovil will never be removed

(4) (11) Presention of the practice of mixing hand ginned cotton in machine ginned -This is not desirable because often time. I and guined cotton currics more seed with it with the result of more loss per eent. At some places, short stupic cotton is mixed with long staple. This ovil could be avoided by the restriction of railing and cirting

(5) (v) Presention of false packing -This refers to the practice of mixing very inferior cotton as well _____ as fly and droppings of mills in the middle part or hard side of the bale and sometimes all throughout. This

will be greatly remedied if the licensing of factories is made compusiony

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[Continued

III -STATISTICS _

4920 (33 and 34) Improvement of statistical information — Licensing of factories will also help in bringing out more accurate reports of the output

4921 (35) Publication of Liverpool and Bombiş prices —We are in fixour of publication and that ought to be twice a day anexung the closing reports of overnight in Bombis carly morning before the opening of the market in the mojussil and the opening reports before evening of the same day

Sir Vithaldas Thackirsfa (Chairman), and Mr. Mathuradas V. Khiwu, representatives of the Indian Merchants' Chamber and Burcan, called and examined

4922 (President) Sir Lithibles Tharbers y. If the week under long chaple cotton be more used where it does not conflict with wheat it would be an advantage. I do not want to so into the ar a devoted to food grains in the interests of cotton. Areas which are suitable for long staple cotton at present grow short staple attender the purpose of mixing and, if that were stopped, there would be a large mere use in the next ander long staple cotton. Better cultivation on the next ander long staple cotton would increase the outting

1923 As we have pointed out in our written evidence it would be very difficult to regulit the transport of cotton by road but it would not be impossible to regulite despatch by roal. There must, I think be legislation to some extent. Cotton from Ishandesh is imported into Brotch and the cotton of that district which was it one time very good has deteriorized because of the fraidlicit practices of the mechants. Ditimately these fraidlicht practices will have the cultivators themselves. I do not see how the trade can regulate matters if the gimning factorics encourage watering. If other people but watered cotton, the gimning factory owners got the advantage just the same. Watering es a fraidflicht practice which does no good to my body. It is an absolute fraid. I am not very hopeful about the trade organizing it elf sufficiently to prevent abuses.

4924 (Mr. Il adia.) I have heard of the Berr seed muon, but I have no per ourl experience of them It would be a year good thing if oo operative societies and muons could undertalle seed distribution. It would be a great help. Some means would have to be found by which the muons could procure good seed.

4025 I have just now stated to the President that the cultivation of short—type cotton in areas where tong staple used to be grown should be restricted. That is only a sugge from if large quantite of long staple cotton in a winted. If the areas which are suitable for long staple cotton in extract for that it will naturally more iso without hum to the oultry stores them that of long staple cotton in certain areas it a true that the yield of short staple cotton is bigger than that of long staple and the ginning percenting as a good that it pays the cultivator to grow short staple cotton. The short staple cotton mature—carly and there is less rish of its being damaged by drought late in the seison. In that way it pays the cultivator to grow to like gets his money culter in order to pay the Covariment due, but that it is no reason why some staple cofton should be encouraged in areas in which those conditions do not certainly exist. We find that in certain destricts short staple cotton is grown because it gets a better price than it and which in evening the first to some fine district. If the short staple cotton were lept separate from the long staple, then it would fetch a very much lower price. It would not fetch the same price as it is doing now. When short staple cotton is grown in a long staple district, it fetches more than it is worth. It is my view that short staple cotton in the edistricts should not be encouraged by the Agricultural Department.

1926 In regard to the restrict on of rading lapar from one stat on to another, I would allow cotton to be brought in fully pressed bakes provided that it is for legitimate purposes. I am of opinion that the move mont of cotton in any form by the I should be prohibited entirely except in the case of cotton required for bona fide e usuampt on or for export. The difficulty of restricting transport by cart associated that my Chamber is not incorred at piecent to put forward any suggest on which they can regard as very satisfactors. If as the result of the evidence taken by the Committee, any method can be suggested in regard to it it would be a great advantage to the take. Every bale should be mailed on the flat of the bale with the name of the pressing factory and the name of the station at which it was pressed as well as with a mail which would give particulars so as to allow the history of the bale to be traced. What is wanted a some distinguilling match by which if any fraid is committed and is found out in the market, the bale could be traced back to the original pressing and guining factories.

4927 I would recommend a rule that standardized weights only should be used in the factories. If a system of hechsing is adopted and if a ginning factory is found resorting to damping or mixing the hechse should be taken in viv. Chushed seed passes into 1 nt owing to the bad setting of the gins but there is a contain amount of fraudulent setting of the gins in order to allow it to pass into the lint. I would in the it a condition of a Leonse within a casonable limits that the gins should be properly set and kept in order. I do not consider the mixing of hand ginied cotton with inachine ginied cotton is a very serious problem because after all it ern at once be found out. The mixing of waste and fly with cotton is a arrived on an equality in the saw ginied tract from which the saw ginied. Dhawar American cotton comes. I think it would be overcome by the probabition of transport by rid. It is a very serious matter.

4928 We use in favour of the publication of prices twice a day if price cable and ut any rate once a day. The prices that I would life to see published would depend upon the district. Broach is the standard in Bombry but in a place like Beru the price of Akola Khangaon cotton could be published.

4929 (Mr Hodgl inson) I think that the quality of long staple cotton in India has been going down in many districts during the last few years. In N indea and in other places in the Nizam's Dominions as well as in Breach all the cotton has deteriorated owing to the gradual initing of seed. The principal cause of deterioration is the mixing of seed in the graning factories and the seed being sown mixed. The picking of animpo bolls is a different matter. That deteriorates the cotton in a different way. If unique bolls are picked, it causes a central amount of irregularity in staple. Going over the fields twice might improve matters but we have no experience of up country conditions and I would rather not give any opinion. There is not much kapas found in the bales of cotton that arrive in Bombay. It mostly comes from the Dharmar district not from Navsan

4930 Mr Khimpi —I think that there has been an improvement in regard to damping in recent year. In the Nizam's Dominion that is specially the case as matters are regulated by law there to a certain

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[Continued]

Khandesh has improved a little The Beng ils tract is the worst as regards damping Dunp ing there is done dehberately with the idea of adding weight to the cetton

4931 I have seen Punjab American in Bombay. It is not pure cotton but is all mixed with deshi. Very little pure Punjab American cotton comes to Bombay from the Punjab. There is very probably about 25 per cent of deshi mixed with it. If it is very short staple deshi cotton which is mixed with long staple, it could be detected at once, otherwise not. I could detect a mixture of ten per cent in lint but not less If Punjab. American were sent to Bombay in a pure state, it would fetch a much higher piece. It is not invited by the outly near but it is the mixed by the outly near but it is the mixed with the continuous pure line. The mixing goes on in the gins and If the Bombay spinner could afford inized by the cultivator but it is the middleman who is responsible presses It, is the middleman who does that to get a better return. If the Bombay spinner could afford to prova sufficiently high premium for the pure stuff, there would be no incentive for the middleman to mix. But once the name has been spoilt, it is very difficult for the buyer to pry the whole value at once. He is always nervous until the cotten goes to the spinning point and he finds out the results. I do not find Cumbedra mixed to that extent but it is also coming in mixed to some extent short staple cotton

4932 Sir Lithaldas Thackersey—Mixing in Timevelly has stopped owing to the combination of all the gin owners and press owners there. There are only a few large buyers and they have combined and with the assistance of the Director of Agriculture the short stuple viriety is being gradually cradicated from there. The increhants have combined not to gin and press it and have been very successful in keeping it out.

4933 I use only a small quantity of saw graned Dharwar American. The difficulty with saw graned cotton is that the staple is cut and that in spinning we find the yarn nappy. That is the reason why mills de not care to use it in large quantities If it is carefully ginned, the colour is very good but with all our

efforts we cannot get rid of nap

4934 Mr Khimji —As to classification, it would be better if cotton were elissified according to the old system, i.e., if districts were taken up as a whole and the cotton were valued according to the length and strength of the staple as well as on class. I prefer to buy on types or something life that rather than on names The name of the station would be useful in tracing out friedlent prictices but otherwise it has no bearing on quality or otherwise. At present, the general tendency of the trade is not to buy cotton on the name of the station. The buyer is, however, generally influenced by the name of the station. There is nothing to prevent a man talling an inferior cotton from one district to mother. The seller may obtain a higher price than the real value by adopting such a practice. The buyer does examine the staple but his examination

is sometimes very rough
1935 I do not think the Breinen rules would be possible here. I am not in fix our of permanent official arbitrators. I prefer the present system of arbitration which works satisfactorily. It has got its httle defects but all round it is a good thing.

4936 (Mr Roberts) Sir Vithaldas Thackers y—The function of the Indian Chamber of Commerce is to represent all trades and all classes. It represents the piece goods merchants, the Marw in merchants, the cotton merchants and grain declers. It has the same functions as the Bombay Chamber of Commerce except that the members are Indians, whereas those of the Bombay Chamber of Commerce are mostly Luiepeans

The rules are priorically the same
4937 Mr Khimp - When cotton is lailed to Bombay, the rail reco pt is given to the mul addam (cutting agent) who clears the cotton from the station and sends it off to the cotton green or to the godowns charges about eight or twelve amas for carting and the cart contains four bales. After that the cetton comes into the charge of regular muladdams or shippers. Then it is handled by the muladdam's cooles in weighing, After that the cotton comes piling and giving delivery to the buyer The expenses of that come to about Rs 2 per I handi When the cotton has to be exported to does not go struight to the ship, it has to be weighed, it has to be marked and taken to the docks but the facilities for shipping are never prompt. It has to be lept for a day or two some where. The muladdams are agents. The people who weigh out and deliver are the agent's men. Cotton for export 13 mainly stered on the green before it is despatched because shipping is not an adable at once is no compulsion about taking it to the godowns

4938 Sir I thaldas Thackersey — For the last to overs the Port Trust have opened a dopot at the docks Rall Bres and some other large shippers take their cotten direct there. Cotten at the Port Trust dopôt is under cover. The cetten green has no shelter but there are a large number of godowns there. Light to ten lakks of bales could be under cover. The bales are never left in the open in the menseen. The intention is that the cotton green should be abolished after three or feur years, and that cotton should be taken direct to the docks

4030 Mr Khimpi -A survey by arbitrators on the basis of the staple of cotton is difficult

other difficulty
4040 Sir Vithaldas Thackersey —In regard to the tendency to grow short stuple cotton in certain tracts, I think this is a matter which must be threshed out by the Agricultural Department - If they can find out long staple seed with all the advantages of short staple in regard to growing period and resistance to weather, it will pay the cultivator to grow it and the problem will be easily solved. The question is an agricultural one

4941 Mr Khimji —I have myself been getting Punjab Amorican for sale here. I have seen some this year. The usual mixture is there there is no improvement. The quantity that has come in is very small I have not come across anybody who has been using it this year. I have seen some this

4942 Sir Vithaldas Thackersey—We have bought Punjab American this year through Messis Volkart Brothers and made special arrangements for getting it ginned Wo got good samples and we bought on those samples Owing to dislocation of rallway traffic, we have not got a single ball down here, every thing we bought is lying in the Punjab. My firm is Mesers Thackersey Moolin and Co - We purchased pine Punjab American at the Government auctions and Mesers Volkarts sent two other samples, one with five per cent mixture of deshi and the other with ten per cent mixture. We purchased these three kinds But we have not got a single bale to try I must say that if the cetter cenes in according to the sample, it We are going to try it as soon as the cetten arm es will be a very good quality

4913 As to publication of prices, I do not say that the Liverpool and Breach prices are a very oriterion because so many things affect prices but at the same time we knew usually that a rise in Broach affects the up country markets. It is only a few people at present who can get telegrams and it is only people who are strong enough who get the information. The poor people do not get the information. By the public cation of prices every body will get the same information whatever the value of it may be

Мг Манівнаї Дацратвнаї

Mr MANIBHAI DALPATBHAI, Millowner and Banker, Ahmadabad

EXAMINED AT AHMADABAD, FEBRUARY 6TH, 1918.

Written statement

I -AGRICULTURAL EXPERIENCL

(b) "Deshi" long staple cotton

4944 (10) Experience —I willowner and also hold some land in Dholka district where to a minor extent, cotton cultivition is carried on. From my experience as a millowner, I would give my views regarding the questions put I am highly in Gujarat. I have got my tenants, who are growing cotton on my land 4945—(11) Varieties —Principally uagad cotton is grown but to some extent lalio, lanvi, salaha and mathic are grown in these parts of Gujarat and Kathiawar 4946 (12) Size of holdings —The size of the land under cultivation for cotton mostly depends on the ruling prices of the cotton in comparison with other food stuffs, etc. Especially thus year about two third of the land has been used for cotton cultivation.

of the land has been used for cotton cultivation

4947 (13) Yields and profits and comparative returns—The average yield per aere depends upon quality of land. In our district good land produces under favourable climatic conditions 200 maunds per the quality of land

aero while inferior hand under similar conditions produces only fifty maunds per aere

4948 (14) Rotations and manures—Where cotton, except mathro is grown, rotation is impossible as sowing begins in the Hindu month of Shravin and cotton becomes ready for sale in Fagun. In districts growing mathro cotton, wheat crop or other winter crop is likely to succeed. As for manure, cow dung is generally used. Everything is done by manual labour and commorcial fertilizers are not used.

4949 (15) Conditions affecting increase in area -If at the expense of food crops, more ground is used for cotton cultivation and good labour supply is given to farmors, an increase in the acreago is likely and also artificial water supply is not enough to cope with the needs of the farmers. A great improvement in this direction is possible by constructing ennals whore feasible, if not by constructing reservoirs or artificial

wells by bering 4950 (16) Suitability of existing varieties -If cultivation is carried on by scientific means, further

improvement in the quality of the cotton is quito possible

4951 (17) Prevention of mixing of different varieties—It is important of that the mixing of long staple cotton with short staple cotton should be prohibited by most stringent means and made punishable by law. Some fraudulent merchants bring lapas by rail from other short staple cotton growing districts and my the same with long stuple cotton in guining factories, thereby not only do they spoil the quality of the cotton, but they spoil the future growth of cotton by mixing the inferior seeds. I would suggest that the railing of lapas from sho t staple cotton growing districts to those where long staple is grown should be stopped and some measures should be taken with gin owners, prohibiting them from mixing short staple with long staple cotton

4952 (18) Uses of seed and seed selection —Seed is generally used for cattle food and partially for poor industrial purposes. Seed is not specially selected of hand ginned cotton but the cultivators would

prefer hand ginned ceeds where practicable

4953 (19) General economic conditions - The economic condition of the farmers is not sound me obliged to borrow money at an exorbitant rate of interest from petty money lenders who not only take high rate of interest but also receive the produce of the land in return for their money at a very comparatively Hence to improve the condition of the cultivators, it is urgently necessary that the co operative eredit system should be introduced all round and money may be lent to the farmers at a reasonable rate of interest. Also the assessment of the land is very high and as changed at a very short interval, which should be lengthened so that the farmers may have an opportunity to improve his land and may enjoy the fruits of his labour. If his economic condition, improves, then only could be use better means for cultivation and thereby a great increase in the yield per acre could be offected

(c) Exolic collon

4954 (28) Importation of seed —Under this head I would like to express my views for general informa tion only If pure seed for exotic cotton is imported from America or Egypt and largo quantity of good American or Egypt an cotton is grown, it would be to the general interest of the farmers as well as the consumers. There are every chances for this cotton to be grown in India where at present long staple cotton is grown

II -- COMMERCIAL ASPECT

4955 (30) Local trade customs—The condition of the farmers is generally so poor that they are selling lapas before it is ready to the petty merchants for paying Government assessment. These petty merchants are also selling some of the holdings to big buyers as future contracts and these buyers are in their turn selling to mills and big exporting houses. The petty merchants divince money to the farmers 4956 (31) Standardization of commercial names—The principal names of various grades of cotton

Oomras—Khandesh, Central Indra, Busi, Hydorabad (Decean), Berar Dholera—Kadi, Viranigam and Kathiawar districts
Broach—Irom Auklesh ar to Palej, Surat from Syam to Navsari

Bengal—Cawapore, Della, Agra and upper India districts

Kumpla Dharwar-Coming from Dharwar district

Tinnevelley and Cambodia-Madras side

These are very wide names by which name some inferior cotton is sold, the names could be standardized if small sections are given separate names, and to do that, in my opinion, seems to be much better than these wide names

Bombay 1

Mr MANIBHAI DALPATBHAI

4957 (32) Buying agencies - Instead of buying from Bombry market, I would prefer to buy in upcountry markets through rehable commission aratyas of those places so that unnived could be had

III -- STATISTICAI

4958 (33) Improvement of cotton forecast—The cotton forecast hitherto published by Government should be published on the lines of the American Government for the whole of India, giving precise informa

should be published on the lines of the American Government for the whole of finding giving precise motination regarding acreage and condition of the plants every month

4959 (34) Improvement of other statistical information—If ginning or pressing figures, as in the case of America, were to be published periodically, it would be the trade regarding the statistical position and buyers would be guided by it

4960 (35) Publication of Liverpool and Bombay prices—If the daily prices of the Bombay and Liverpool cotton markets are published in up country markets, it would be a guide to the sellers

IV -MANUFACTURE

(a) Ginning and pressing

4961 (36) Type and number of gins and presses -I have get 24 five bearing single roller gins of Messrs Platt Brothers' make in my mills

4962 (38) Saw gins versus roller gins —I prefer roller gins to saw ones. Saw gins are not successful

because they break the staple and cut the seeds to some extent

4963 (40) Factory labour —Labour is very dear and scarce owing to general rise of prices in India 4964 (44) Condition of cotton Kapas is not coming in clean If Lapas is picked by better methods, no dust and leaves would be coming

(b) Spinning and weaving

4965 (43) Counts spun and market for yarn or cloth -We have been spinning yarns from 6s to 40s generally, as we have a weaving shed in our factory most of our yarn is taken up in weaving yarn we can spare for sale is sold in Calcutta, Cawnpore and other parts of upper India

4966 (44) Condition of cotton—In this question, if adulteration of inferior cotton is to be understood, I would refor to my answer to question 17 (paragraph 4951), but if the actual condition of the bales is to be meant, I could say that we do not find any difficulty in fully pressed bales but we generally find great

difficulty in the transit of three fourths or one half pressed bales, which get loose in the transit
4967 (45) Effect on cotton market of replacement of short staple cotton by long-staple—If
short staple cotton is replaced by long staple, it would be to the advantage of textile industry preparing cloth

MR MANIBHAI DALPATBHAI called and examined

4968 (Mr Wadia) I have two mills, the Saraspur and the Edward mills I have some land, about two thousand acres in extent but perhaps it may be a little more than that I cannot say how much of that land is under cotton. I have given out the land to tenants under two systems—one bighoti and the other tenancy Under the former system, the tenants get a share of the produce whereas in the latter system they pay a rent of Re 1 or Rs 2 per bigha and take the whole produce I pay the Government assess ment in both cases I do not remember what the assessment is

ment in both cases I do not remember what the assessment is

4969 In Ahmadhad district, lake and uagad are the only two cottons grown. Of the two, uagad is
the better In length the staple is from three fourths of an inch to in inch. The staple of lake is the same
but it is weaker. It is a softer cotton. Kanvi cotton is a short staple cotton. It grows in Wadhwan district
and is better than malkee. Sakaha grows in Wadhwan and on the Dhollera side. It comes in a very dirty
condition. Malkee comes from the Bhawnaggar side. Malkee is the poorest of the whole lot. The staple
is less than half an inch. The Hindu months, Skrawin and Fagun mentioned in my written evidence are the
months of August and April respectively. Malkee comes in earlier, in Kartic, i.e., about December
4970. People bring in short staple cottons from other districts and mix them here with long staple
cotton. This should be prevented. They bring cotton from Berwar and also from Ajmer, Klundesh and
Naddubar. They bring it to Kalal. We have gins in Kalol. It is only ten or twelve miles from Almedi

ubar They bring it to Kalal We have gins in Kalol It is only ten or twelve miles from Ahmeda I use Surat and Navsari cotton Broach, Surat and Navsari cotton are all mixed together I would say that people should be prolubted from transporting lapas by rail. On the borders of tracts which are growing different varieties of cotton, the ginneries should be regulated. As to the transfer of cotton by carts, I should say that the ginneries and presses dealing in cotton should be liable under law. My idea is that ginneries should be prevented from mixing short with long staple. I have only one gin in the mills here and none in the district. The ginneries do not mix but it is the men who buy from outside who mix the cottons Some damping of cotton is carried on here On the Akola side they put cotton under the hose pipe I think that damping ought to be stopped too I think that it can be stopped by heensing or by I think that damping ought to be stopped too pıpe passing an Act

4971 I have said in my written evidence that the assessment on land is very high. I cannot say exactly what the assessment is but in my place it varies from ten annus to Re 1 12 per bigha. I have got three or The assessment is changed every fifteen or twenty years as far as I can remember

ment is collected once in the month of January I would suggest that Government should collect the assessment later on in the year that is to say in July or August when money is easier

4972 It is the custom hero for the cultivators to get advinces from the banas and boras There are some Muhammadan sahukars too I do not know exactly what interest they charge but I think that it is from nine to twelve per cent per annum but the whole produce of the borrowers field to be sold to the man who advances the money at a certain price I know that the price paid to the cultivator is low I would suggest some sort of co operative movement to help the cultivators I do not know whether there are any co operative societics in Ahmedabad

4973 (Mr Hodgkinson) Kapas does not come in clean If it were picked by better methods, there

would be no dust and leaves I have no suggestion to make to improve the picking

Mr NAGINLAL MAGGANLAL

4974 I have had no experience of saw gins. The statement in my written evidence that saw gins are not successful because they break the staple is what I have heard

4975 We are spinning from 6s to tos from Surat cotton It is west I have not spun warp I think Surats will spin up to 24 or 26 s warp. I think the trade as a whole par sufficient for good cotton. If we get a better cotton we could afford to pay more than at present, as we should realise more.

4976 I have used Punjab American in my factories I used only a few bales It was used only once

so I cannot say whether it is pure or mixed in staple
4977 (Mr Roberts) We have some lands here which yield five maunds of Lapas only 1977 (Mr. Movers) We have some lands here which yield have maunds of kapas only. Our mained is forty lbs. One reason for stopping the importation of kapas is the danger of getting inferior-seed into the hands of the cultivators after ginning. When people bring in short staple lapas, the seed remains and it spoils the whole growth of cotton in the trust.

4978 I tale from my tenants from 10 annas to 13 rupee per bigha. The Government assessment six or seven annas. Re 1 12 would be the rent of exceptional land but generally it is a rupee The Government assessment is about six or seven annas

rent is always more than the assessment

4979 Instead of buying in the Bombay marlet, I would prefer to buy in up country markets through reliable commission aralyas of those places so that unmixed cotton could be purchased. The mills gene rally but up country, through their own agents. Each mill has its own agents. We use much Kathiawar cotton. The mills compete with each other and each mill does not confine itself to any particular tract We use much Kathiawar There is no limitation at all in regard to mills buying from any tracts they life

4980 Arbitration is carried out by the mahajans in the villages or towns. They have their own local There is no Cotton Trade Association here as they have in Bombay There are no uniform rules for ribitration, they are simply local rules in each place which is a buying centre. It would be an advantage to have some uniform rules with regard to arbitration for settling contracts Every body would have to agree to it

4981 I have heard of the American system of statistics - It would be a good thing to have the American

system in India and to get information every month

4982 (Mr Wadia) We do not buy Surat cotton direct from the cultivator. We buy it from the merchants who purchase the cotton from the cultivators, they gin it and then they sell it to us Sometimes they have ready bales there and we law those We do not give advances to the cultivators, it is the aratias who do so

Mr NAGINLAL MAGGANLAL of Virangam

TAMINED AT ANMADARAD PERRUARA 6TH, 1918

Wrillen statement

I - AGRICULTURAL PEPRIFACE

(b) " Deshi" long staple cotton

4983 (10) Experience —I have resided in Virangam district for the last fourteen years and I have not been in actual touch with cotton cultivators
4984 (11) Varieties—ll'agad variety is grown in this district and is known in the Bombry market as

Viranigam Kadı cotton

4985 (12) Size of holdings -- Half of the land is kept aside for cotton sowing by the cultivators,

and this year out of this half, one fourth remained misourn on account of heavy rains
4986 (13) Violds and profits and comparative returns—The average yield per acre is twelve to sixteen inpunds of cotton pods or three to four mainds of lint cotton and the profit to a cultivator is about Rs 20 to 30 per acre

4987 (14) Rotations and manures —Only one crop is taken in a year Sowing is commenced in

June July and the harvest is collected in March April Condung manure is very sparingly used

4988 (15) Conditions affecting increase in area —Lougth of ginning season with less restrictions

on the factories and easy labour supply would encourage cultivators to merease the sowing area

4989 (16) Suitability of existing varieties - Superior types of long stuple cotton could be introduced

with advintage 4990 (17) Prevention of mixing of different varieties —Selection of seed by the cultivators, and

prohibition of ginning inform cotton by the factory owners, would prevent the mixing of inform seeds 4991 (18) Uses of seed and seed selection—The seed is used for feeding cattle only N

selection is practised and the cotton is not hand ginned for procuring good seed

4992 (19) General economic conditions -As the cultivators are comparatively poor, cotton sowing taken in hand by companies, who command a fairly good capital and use steam power, would increase the erop a good deal

II —COMMUNICIAL ASPECT

4993 (30) Local trade customs -The cotton pods are brought in earts to the nearest market by the cultivators for spot sale through brokers Some cultivators make future sales also for a part of their produce to merchants (1 e, avalyas) The aralyas get their cotton ginned and sell the lint cotton to kharidias, 1 e, buyers, either as ready delivery or in finture, by a contract. The "future" business is generally done on I very limited scale

4991 (31) Standardization of commercial names -- We have only two commercial named cottons-(1)

chalm, re, mixed variety, and (2) kare
4995 (32) Buying agencies — Arat system of buying agency is m vogue here and this is not bad

IV -MANUPACTURE

(a) Ginning and pressing

4996 (36) Type and number of gins and presses -Roller gins are used here and full presses We have mucty gins and three presses of Whittle & Co here worked in our fictory

Mr NAGINATT MAGGANLAL

[Continued

(2) In Viraingam there are altogether 400 gins and four presses One ginning and one pressing factory are under creetion also

4997 (37) Size of bale —The size of the bale 47 ms length \times 21 ms \times 17 ms

4998 (38) Saw-gins versus roller gins —Saw gins are not good for fine fibred eetton. The fibre, 1 c, staple is injured by the saw gins. We are using roller gins here

4999 (39) Effect of saw-gins on Indian cotton —Saw gins have not been successful with Indian cotton. The staple is thereby injured

5000 (40) Factory labour -The labour difficulty is every day getting worse

(b) Spinning and neaving

5001 (43) Counts spun and market for yarn or cloth — Counts 6½, 8½, 10½, 13½, 20, 21, 22½ for the market and 20s and 30s for weaving shed Cawnpore, Calcutta and Bombay are our principal markets

5002 (44) Condition of cotton —Crushed seeds are found in cotton. This can be stopped by Govern ment regulations or by an association of ginners and buyers.

Mr NAGINLAL MAGGANLAL called and examined

5003 (Mr Wadia) I work with Messrs Whittle & Co at Virangam—I get a commission on that work in the ginning factories—I have shares in two mills one at Virangam and the other at Brouch, and I am also a partner in ginning and pressing factories at Bardoli in the Surat district and Mandal in the Virangam district—My exper ence in the Virangam district is confined to uagad cotton—Wagad is much better than mathio and better than lake—It is better than lake—in spinning qualities—The percentage of blow room loss is less than that of lake—and it has a better strength—The spinning properties are far better—Wagad spins up to 20s warp and 22s for recling—Sometimes we take it up to 24s—but with a less twist—We do not use much lake, it spins two counts less and does not give so good a test—Sometimes we buy a very little mathio for low counts

5004 I have no knowledge of the actual cultivation of cotton so I have no land. When we buy cotton at Viramgam, we buy ginned cotton and not seed cotton. We do not buy Lapas as there are merchants at Viramgam who are ginners and can do the ginning. In Bardoli, we have to buy seed cotton as there are no merchants there to do the ginning work. Sometimes the merchants buy cotton from the cultivators "forward" and sometimes the cotton is bought "ready" in Viramgam. Some of the old merchants sometimes buy forward from a few good cultivators who can give proper and regular delivery. We could also buy forward but we do not want to take the trouble

5005 The peds of wagad cotton have to be picked in the fields That means that the owners of godowns have to collect the pods and get them opened for this purpose they distribute them to females For that a special staff is necessary and it entails having a special godown near the town where females can come and rich the cotton out Things are different in the Surat district. There the seed cotton is brought in direct from the fields. We prefer to buy uagad from the merchants because it is hand picked by them

5006 Ginning is done on commission in Viramgam. Anybody can bring lapas and get it ginned. As regards the ginning percentage of uagad, a gin working only eleven hours gives eight to nine mounds of lint and one working fourteen hours gives about ten to twelve maunds of lint, i.e., about 34 lbs per hour. From twenty maunds of lapas we get about seven maunds of lint. So that practically we get a little more than one third in lint.

5007 I have already mentioned that the buyers at Virangain have combined to refuse to buy any thing except wagad, as the mixture of labo with uagad tells against the percentage of Virangain cotton. Besides when these cottons are mixed, the seeds also get mixed. The cultivator tall es the seed for cultivation and not for feeding the critic and the result is that short staple gets mixed with long staple, and wagad, labo and mathro are all mixed together. All the cultivators care about is weight. As they did not care what sort of cotton they grow, the dealers and the bayers combined to avoid trouble and to keep a check upon the cultivators so that they might get the true uagad cotton.

5008 I have already ment oned in my written evidence (paragraph 4988) that a longer ginning season with less restrictions on the factories would increase the area under cotton. By restrictions I meant the restrictions regarding holidays. In the ginning season, we have to observe the local holidays as well as the holidays under the Factory Act. Instead of four holidays as in Bombay, we have six or seven every month. On Eladashi and such other local holidays the factories must be stopped. In Bombay they do not observe the local holidays in the mills during the ginning season but here the ease is different. We have to close on these local holidays because on those days the merchants will not bring their kapas in. In Bombay, they have not to depend on the merchants. We have no heap system but consume all that we get every day. Even if we had the heap system, that would not solve our difficulties for the merchants would not send their servants to work on a holiday. The cotton belongs to the merchants and not to the gin owners.

5009 (Mr Hodglinson) We have minety gims and three presses. The cotton that comes to the giming factory is weighed by weigh bridges. The cultivator has nothing to do with weighment as he sells his pode cotton to the merchants who store it in their godown for a number of days before it is picked by women. It is the merchant who sells to the ginneries and weighment is done by the gin owners in the factory. In Surat, however, the custom is different. There the kapas is bought directly from the cultivators by the ginning factory.

5010 The amount of kapas a maund of cotton pods will produce, depends on the land and also on the seed and run. At Virangam there are different rates. Sometimes a hundred maunds of pod so tton produces and maunds of kapas. Sometimes it is 73 maunds and sometimes it is 71. A rough calculation would be three quarters kapas and one quarter husk. The ginning percentage is about 35, but it values greatly according to the quantity of rain that we get in a given year.

5011 As to the crushed seeds that are found in cotton this can be stopped by Government regulation or by local regulations as we have done. If the freight for the carriage of cotton with seed in it, i.e., of lapas were increased, it would not pay the merchants to take lapas from one district to another. They only bring in this lapas to get a little margin of profit but if that extra margin were taken away by railway freight and other things, they would not trouble to carry lapas from one place to the other. The adulteration of ginned

THE AHMADABAD MILLOWNFRS' ASSOCIATION

cotton with crushed seed may be due to bad ginning but sometimes it is done deliberately by the traders. Sometimes the fitters in the factory can do it without the knowledge of the factory owner. I do not thinl that heening could stop this evil unless the merchants themselves wished to stop it. In our merchants' association we impose a penalty. When we buy cotton with crushed seed, we keep the cotton in a separate room. When a buyer comes, he sees that the stuff is not pure but contains crushed seed. We tell the other buyers that the cotton in this room contains so much crushed seeds and we cancel the purchase of the cotton. There are sometimes other buyers in the Bombay market who do not mind a little crushed seed. In order to prevent adulteration with crushed seed we have formed this combination between nicrehants, gin owners and sellers but these combinations generally last for a year or two and then break down

practices consists of all the ginners and all the merchants and mahajans. They have agreed among them selves that certain things should not be done. What happens is this. If a man finds lapas or crushed seed mixed, he informs the association and the association informs all the ginners and buyers that they are not to buy that cotton. If any member of the association tries to sell mixed cotton, he has to pay a fine according to the gravity of his fault. The maximum punishment is a fine of Rs. 50. That amount is taken by the association and spent on charitable objects. Sometimes instead of a fine the member is warned. The mixed cotton is kept separately and ginned separately and the seed is fed to the eatile. The association will not buy ginned cotton of this kind. If a ginning factory were to gin a mixed lot, there would be nobody to report the matter to the association. I can tell the difference between mathic and tragad cotton but it is harder to tell in lapas than in him. If they are mixed in small quantities, no one can detect it

5013 I am not in favour of licensing ginning factories as it would be a discouragement to the trade and the Liming factories. There is a Factory Act already for the mills but for a seasonal factory it is a great hard ship. For the last two years the l'actory Act has been extended to ginneries but I do not think that the Factory Act Inspectors are required for seasonal factories. The Inspectors do very little. They only mean worry and less work. The only thing they are concerned about is the employment of children and the ginning factories have to employ children. When there are a father, mother and children, the mother goes to cook the food and the child is not employed throughout the day.

5014 It would be advisable if the Agricultural Department were to certain test of seed from the

5014 It would be advisable if the Agricultural Department were to certify certain lets of seed from the ginneries as suitable for sowing if this were possible

THE AHMADABAD MILLOWNERS' ASSOCIATION.

EXAMINED AT AHMADADAD, FEBRUARA 7TH, 1918

Written statement submitted by Mr Mangaldas Girdhardas Parellh, President, Millowners' Association, Ahmadabad

5015 Experience—I have the honour to state that I belong to the Bombay Presidency and have several ginning and pressing factories at various places in Gujarat, both in the British as well as in the Gaekwar State territories. Besides I am working as the Agent of soven spinning and weaving mills and guiding several other mills. In my capacity as the Agent of the above mills, I come across cotton of various kinds and my views regarding cotton and cotton industry in India are attached herewith.

5016 Factory labour —As for the question of factory labour I find that now a days it is getting very dear. We have to pay very high wages to our workmen and at times, in spite of our offering very good wages, we are unable to procure sufficient men to go on with the proper working of our mills and factories

wages, we are unable to procure sufficient men to go on with the proper working of our nulls and factories
5017 Importance of questions before the Cotton Committee—The question before the Committee is a ques
tion of primary importance to the cotton mill industry of India as well as to the British Cotton Growers'
Association, who are leaving no stone unturned to grow in India cotton of a good staple, and on a scientific
basis, so that in course of time the British Empire may be a self supporting one, and remain quite independent of other countries under foreign rule

5018 Deterioration of Indian cotton.—It is a fact, known to the merchant world dealing in cotton, that cotton, grown in several districts of India, is year by year deteriorating in quality. The reasons for the same are quite evident and they are—

- (1) Some twenty years ago the export of cotton seeds to Europe was very little but for the last fifteen years the quantity has mereased enormously and the figures are very astonishing. The exporters of seed do not mind whother seeds of one district are nuved with those of the other, as the buyers want them only for the purpose of extracting oil. These seeds, as soon as they go to the nearest railway station, get mixed, and when the sowing season begins, the farmers buy the seeds from the money-lenders. Thus the seeds come naturally inved and the farmers do not eare to discriminate. The result is that the cotton grown from such seeds is hybrid and goes on deteriorating in quality every season.
- (2) Again, those are several cetton producing centres in India where long and short staple cotton is grown side by side, say within a compass of five to six miles. Under the circumstances, the seeds get mixed and the result is deterioration in quality. The Hinganghat cotton is a striking instance of this circumstance, the with satisfaction. Twenty years ago, Hinganghat cotton was as good as the best Surat or perhaps even better. To day one can hardly spin 22s out of it with satisfaction.
- (2) But fortunately for India such times are gone. People have now come to realize what is good for them. The users and shippers of cotton now form an intelligent class, and do not adopt the old methods of buying cotton but send their representatives to the very districts where cotton is grown and buy on the spot. The growers too are now taking to modern methods and are doing their best to produce better quality.
 - 5019 Remedies for deterioration —To stop the evil the following stops may be taken
 - (1) The farmers, instead of buying the seeds from monoy lenders, should buy from the branch of the co operative bank, or, if the district be too small to have the advantage of a co operative bank, the seeds should be bought from a Government depôt. If the farmer is unable to pay in full, the banks or Government depôts should advance them at a reasonable rate of interest, say

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[Continued

bix per cent and out of the first proceeds the farmer gets he may pay off for the purchase of the secds

(2) The Government Agricultural Department should help farmers by investigating what seeds would be best suited for one particular district Having ascertained that, the Department should so arrange that before the next season commences, a proper stock of the above seeds may be kept available for the farmers to buy at their own door

(3) The Government should pass an Act strictly prohibiting sahulars or any private individual from selling seeds to farmers, and also warning farmers not to buy seeds from any source but through

the advertised depôts

(4) Now a days, there are thousands of ginneries and presses spread all over the country and it is and presses spread an over two country and is a sad fact that cotton dealers or middlemen are actually carrying *kapas* of one centre to another centre, in spite of the gins and presses on the spot, solely with the view to mix that cotton with the superior cotton of the other district and to get the marks of the rulway centre to bring out to Bombry market and to sell there as such and thus cheating the buyers of several rupees per *khandi*. This cyil can very easily be stopped by legislation and centres may be defined, and cotton, produced in one particular centre, can be easily made to gin and bile there. If the above plus be adopted, the mixing of one cotton with another will cease altogether and so too the mixing of seeds

(5) The malpract ce of the middlemen has gone to such an extent that hundreds of cotton presses all round India are provided with humidifiers, and while the cotton is under the process of being packed, the humidifiers are allowed to run at their maximum speed and the cotton absorbs four to five per cent of moisture. This is an open secret known even to the Factory Inspectors, and in some cases they will admit that the hose is played upon the cotton to give sufficient mosture before packing. In the districts of Wadhwan and Virungam and other adjacent places, sand or some such substance was actually added while pressing in a small proportion of three to four per cent. When things like this happen it becomes very difficult for a cotton

selector to detect the percentage mixed while selecting cotton

(6) Listly, the farmers are now becoming aware of the fact that they suffer chiefly on account of the malpractices of the middlemen, the mills too, realizing this fact, are at present sending their own men to the cotton districts for the purchase of cotton in order that they may get pune stuff, and they do not now stick to the Bombay Colaba market only, as they used to do in times goue

5020 Introduction of American cotton in the Punjab and difficulties experienced in marketing it —I think before I close this topic, I should invite the attention of the President and the members of the Commission to the facts and figures published by Mr W Roberts, B So, Professor of Agricultural College, Lyallpur gentleman, for the sake of trial, introducted American seeds among the farmers, and in certain truets Dharwar long stapled seeds—The trials began in 1905-1906 but the results were not satisfactory—Then a special Then a special variety drawn from the Dhurwar American seed was selected by the Economic Botanist and handed over for further trials to the sa d Professor This met with great success. One hundred acres were cultivated under that variety in 1913, 3,000 acres in 1914, 9,000 acres in 1915, in spite of the war, and when the cotton had touched the lowest price 14 ever did, 65,000 acres and more were sown in 1916, and it was estimated for the next erop 120,000 acres would be sown. The very figures prove that the farmers have now come to know what is beneficial to them. The average price obtained per maind was Rs 3 13 0 more than the deshi cotton such as was produced before the new kind was introduced. In addition to this, the new seeds and the second such as was produced before the new kind was introduced. In addition to this, the new seeds and the second such as was produced before the new kind was introduced. yielded twice as much cotton as the deshi seeds yielded per iere. Now comes the question of marketing this cotton, and here too the nuddlemen for their gain are spoiling, may running, the fruits of labour bestowed by the cultivators and Government scientists. Mr. Roberts' own words will open the eyes not only of the millowners but also of the Government, and it is high time that an Act should be passed to put a stop to these undescrible mixings and the consequent runation of the agriculture of cotton in India. The words of Mr Roberts are as under —"The marketing of American cotton still leaves much to be desired. The trade is mostly in the hands of Indian ginning factory owners at present, the European firms having done a comparatively small business up to date. Bombay in the chief buyer. What is curious about the business is the almost universal mixing that goes on in the ginning factores. The usual grade sent to Bombay ness is the almost universal mixing that goes on in the ginning factories. The usual grade sent to Bombay contains from ten to thirty per cent of deshi cotton. Some of the factory owners are very frank over this mixing, and the writer has often seen American cotton with twenty to thirty per cent of deshi being added to it before ginning, especially in the Jhang district. One reason for this is that deshi cotton has a botter colour than American and no doubt the mixture looks whiter than pure American One would expect spinners would find the defect. Individual spinners in Bombay stoutly deny that they want such mixtures, yet that is what they mostly get and pay for It might be pointed out that the ginning outturn of all cottons was low last year, and thus there was more than the usual percentage of short fibre. This fact no doubt facili is what they mostly get and pay for It might be pointed out that the ginning outcome of all cottons was low last year, and thus there was more than the usual percentage of short fible. This fact no doubt facilitated mixing with desh. The dangers for the seed from this and other causes will probably make it necessary to brand 4F bales in future. The point is receiving careful attention. It is satisfactory to note that, this year as well as last year, a good deal of cotton was sent pure both to Boinbay and Nagpur. The widespread growing of American cotton is brought home to anyone walking in any part of the above tract comprising the Lower Jaclum, Lower Chenab, and Lower Bari Doub Canals. There is scarcely a village without a field of two of American, and in some places practically no deshi cotton can be seen for miles. As an instance of the indirect effect of the cotton sales, the case of certain large growers near Lyallpur may be mentioned. Up to the day of our first sale, the best price offered to these zamindars was Rs. 10 per maund, whereas the day after the sale they were offered Rs. 11 and some actually sold privately at Rs. 11 4 0. per maund of kapas'

Written statement submitted by Mr G R Rele, Manager, Ahmadabad Ginning and Manufacturing Company,
Limited, Ahmadabad, and Representative, Ahmadabad Millowners' Association

II -COMMUNICIAL ASPECT

5021 (30) Local trade customs —Generally the proprietors of gins act as small juerchants to buy eccd cotton from the farmers in their respective districts through brokers and these ginners make formal contracts with the consumers or big merchants and shippers as it is only the shippers and big merchants that

[Continued]

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For securing cheap burgains when the cotton is in process of growth, the ginners hold Lig lots in stock make small advances to the farmers in proportion to the quantity of cotton a particular farmer is likely to produce in his field. This system is particularly practised in Southern Gujarat. In other parts of Gujarat, and ilso to a small extent in Southern Gujarat, there is a class of cotton commission agents who buy, cotton ducet from the ginners and big merchants as seed cotton, and gin and press it for their constituents,

the commission agents being responsible for money due to gimers and merchants
5022 (31) Standardization of commercial names—Generally the cotton grown in Surat district is known as Surat, but cottons grown in that district are distinguished by the general names of the countries in which they are grown, such as Bilimora, Navsari Maroli, Vesma, Bardoli, Elav, Kim, etc. In my humble opinion, the general classification as Surat is rather misleading and, as the staple and quality of cotton grown in the above named different countries varies to a great extent, they ought to be classed for trade in the names of the countries and the ginners and the merchants prevented by law to carry either loose or cotton m any form or baplas from one country to another In some cases it is found that want of a piess factory in one particular country requires the cotton to be carried to other country To word this, steps should be taken to establish press factories in a country where they do not exist Legal restrictions must be enforced against pressing the cotton brought from other countries and the owners of such factories must be brought to law for pressing such imported cotton in their factories. No bale pressed in a pressing factory should be

to law for pressing such imported cotion in their factories. No due pressed in a pressing factory should be removed from the premises without a stamp showing the name of the commercial country in which it is grown 5023 (32) Buying agencies.—The best form of buying agency, in my opinion, is to have several such agencies in the cotton growing districts where cotton can be bought by the consumers direct from the up country merchants instead of the cotton being taken to big markets of Bombuy and the like for sale Arrangements for purchasing the cotton in the districts would facilitate the consumers and exporters in securing and a cotton in the districts would facilitate the consumers and exporters in securing and a cotton in the cottons of the cottons of different districts being mixed. unmixed cotton in various districts Thus there is less chance of the cottons of different districts being mixed

III --STATISTICAL

5024 (33) Improvement of cotton forecast —The cotton forecast as at present published is far from being satisfactory or accurate. It lacks in details of information as regards quantity of the various qualities of different districts and provinces which is quite essential to form any idea of various growths of The forecasts lutherto published are very general and details of the number of bales is hardly avail Secondly, the forecasts ought to be published every month beginning from the time the cotton is sown and these forecasts should be distributed among all the manufacturers by Government whenever published. They should also be published in the monthly reports of the Director of Agriculture of the Province and these reports must be made known to the public through the leading newspapers of every province. More over, in the district such as Surat, Virangam, Thruppur, Tinnevelly and the like, where better kind of cotton is grown, the cotton may be sold to the public by public auction and pure cotton of that particular district (as is done in the case of selling the Sind and the Punjab American cotton at Lyallpur) guaranteed 5025 (39) Publication of Liverpool and Bombay prices—I'am in favour of the publication of the Liverpool and Bombay cotton prices in the up country markets—This will keep the up country dealers and

manufacturers in constant touch with the fluctuations of the markets in Liverpool and Bombay

IV -MANUFACTURE

(b) Spinning and waving

5026 (43) Counts spun and market for yarn or cloth —In my mill, we spin cotton from 6s to 70s, t larger quantity of 20s to 30s We offer rather a small quantity of yarn for sale, the major portion being but larger quantity of 20s to 30s utilized for our looms My market for yarn is mainly Ahmadabid and a small quantity is sold at Calcutta My principal markets for cloth are Ahmadabad, Calcutta, Campore and Madras, but nearly half our production of piecegoods is sold to local merchants in Ahmadabad

5027 (44) Condition of cotton -Nearly half the cotton received in my mill is faulty, as regards pic sence of enrelessly or fraudulently added durf, water or mixed with inferior varieties and I suggest legislation against adding excessive moisture and carrying of unginned or loose cotton in any form either in bags or baplas from one cotton growing district to another Prevention of carrying of unginned cotton will also

discourage mixing of inferior cotton seed with superior varieties

5028 (44) Effect on cotton market of replacement of short staple cotton by long staple --Any attempt to roplace the short stapled cotton in India with long stapled varieties, would increase the com mercial value of the Indian cotton generally and this change would be welcome to the consumers of Indian cotton generally I have tried the American cotton grown in the Panjab and I am of opinion that, if the cultivation of this variety is extended with adequate measures for preventing the mixture of the Punjab local cotton seed with the American seed, it would give the Indian manufacturers greater opportunities of spinning medium counts and improving the qualities of their productions. I found Punjab American cotton so be a good class of cotton grown in India

V —GENERAL

5029 (46) Attitude of buyers to improved cottons —In the past, Indian manufacturers seem have pad little attent on to encourage the growth of improved cotton, but recently I find that some of the minufacturers give encouragement and actually pay premium for improved cotton such as Cambodia, Tirup pur, Timovelly Government farm, Navsari and Punjab American cottons

Mr Mangald is Girdhardas Parlah, (President) and Mr G R Rele, Representatives, Alimadabad Millowners' Association, called and examined

5030 (Mr ll adia) Mr Parchh—The total number of mills in Ahmadabad is about fifty rumber of spindles is about ten likhs and the number of looms is about twenty thousand millowners except the owner of one small mill are members of the Millowners' Association. The mills use ill the different varieties of cotton but mostly Gujarat cotton meluding Surat. Some mills use Cambodia and thus vear Lyallpur American. They also use Hubbi and Dharwar cotton and some Coconadas. Very little Khudech cotton is used Some mills used Khudesh and Akola cotton We do not get enough long staple cotton here and we have to import it from outside. The districts round here grow uagad and lateo We do not get enough long

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[Continued

Waqad is a better cotton than labo and the mills, generally speaking, prefer it Some rozi cotton from the Kairi district is also used With uagad we spin up to 32s woft and 20s warp With lalio wo can spin up to 30s weft and 18s warp

5031 (Mr Rele) We have not tried lake separately, it is usually mixed with wagad for hand looms

The spinning mills use it for varn

5032 (Mr Parchh) Navsarı cotton spins 24s to 26s wirp and 38s to 10s weft. It depends on the climatic conditions at the time of wearing. Cotton generally comes in a very mixed state but it depends upon the way in which a man buys. If we send our own agents out and they are very careful, we can got Surat cotton Cotton generally comes in a very mixed state but it depends upon the more or less pure If we buy in the market here we get mixed cotton I do not use my Broach cotton and I do not think many mills in Ahmadabad uso it—It may be on account of the price I cannot say if it lias gone down in quality but I have heard that it generally comes in mixed Short staple cottons from Sank hedr and Badarpur are imported into Broach and mixed there with Broach cotton We do not uso any

mathro cotton here It mostly goes to Bombay

5033 The quality of cotton is overywhere deterioriting Wo find it especially in the Alimadabad cotton, but it is true of almost all the cotton that we do not get such staple as we used to get some years ago. All the cotton of Gujarat has not deteriorated. The cotton from Morvi, Dhandrig wh and Wadhwan is pure and now a days that from Viring un is also good. The kadi cotton is also pure it is bought at Kadi itself. The quality of Surit and Bronch cotton has gone down. I think this is due to the fact that they take from interior districts to a district the cotton of which is superior and commands a lugher price For instance, Lapas is taken from Bardoh or Kim to Navsari to be ginned and thus Navsari cotton is spoilt. I have no personal experience of this but I have heard that people are ration is that mixed cotton is ginued and the seed is distributed to the cultivators. I have referred to the case of Hinganization as a striking material of the cultivators. I have referred to the case of Hingangiast as a striking instance of the earlier of mixing. I used to buy Hingan ghat cotton some years ago but I do not buy now as the staple is very short and is not uniform. With the former Hinganghat cotton we used to do fine work and used to spin from 22s to 24s. Now we cannot spin oven 22s. I buy Punjab American, it is mixed in staple. I think the mixing is done by the guinners but it may be due to other causes such as mixed seed. All we know is that we got cotton of mixed staple Dirt and water are added to cotton. I have experience of this in Ujjun, Indore, and Malua cotton. Markanta compliants and the mass of the m and Malua cotton Merchants sometimes ask the press owners to make some arrangement for damping

5034 (Mr Rele) I am of the same opinion A lot of water is added intentioning the cotton from Path near Virangam. This year I have noticed that some of the cotton from Lyall the cotton from Path near Virangam. As a first tlus in the cotton from Path near Virangam. This year I have noticed that some of the cotton from Lyall pur has been highly watered. I did not buy it myself but I have got my own agent at Lyallpur. As a first remedy for deterioration, it is suggested in our written evidence that the cultivators should buy seed from a co operative bank. There are some co operative banks in this district, and almost all the villages in the fleak

war's territory have co operative sceneties. The number of such associations is mercusing 5035 (Mr Parelh) A Government depot might be opened in some central place at which ecids might be sold. I want the whole seed supply controlled by a Government department, if it is possible / Then

only good seed will be distributed and there will be no mixing

5036 The second remedy for deterioration that we have suggested is that the Agricultural Department should help the cultivators by finding out which seed is best suited for a particular district. Wo must try for long staple, not for short staple at all. Wo want Government to find out what long staple cotton can be grown in particular districts. I have heard the argument used that the short staple cotton has a bigger yield and a higher ginning percentage and that therefore it pays the cultivator better to grow short staple than long That is true, there is less danger in growing short staple cotton. Long staple cotton takes a longer time to grow and therefore is more hable to damage from extreme cold. As to whether it is possible to eucourage the cultivators to grow long staple cotton by paying higher piaces for it, I thinh that we are paying a sufficiently high price for long staple cotton as can be seen from a comparison of the figures. Formally, the difference between good quality Ahmadabad, i.e., uagad cotton and Sunat cotton was only Rs. 2 per manual of 40 lbs in favour of the latter. The difference new has gone up to Rs. 6 or Rs. 7 per manual. There is the same difference between Broach and Surat cotton, i.e., about Rs. 120 per khandi. We pay a better price for our deshi uagad cotton than for Broach. I have already said that if the short staple cotton were kept separato from long staple, the difference in price would widen, but much depends on supply and demand

Sometimes the price of short staple cotton goes up if there is a demand for coarse counts

5037 All seed from ginnenes should be sold for export or for feeding cattle. It should not be sold by salukars or private individuals for seed purposes. That should be stopped by legislation. Of course, the cultivator night buy the seed with the estimable object of feeding cattle and then use it for cultivation. I am merely jutting forward suggestions. It is for Government to decido what action should be taken

5038 The other remedy suggested in my written evidence is the prolinbrion of the trunspot of kapas and half pressed bales from one station to unother. If that is done, a range can be stopped. It is not the gineeries who are mixing, but the merchants. It would be a ther difficult for the gineeries to do it as they do not know from what distinct cotton is brought. If the merchants are prevented from bringing in If transit by kapas from outside, that is a bottor way of stopping mixing than the becausing of ginneries rail is stopped, the evil will be overcome to veert un extent

5030 I know that pressing feetones are provided with humidities. I have one in my own pressing factory. I have been told that in Uji in bugs filled with cotton are put in layers and that hose pipes play upon them. We have been asked by merchants to put in humidifiers in our pressing factory at Virangum and Massana. It is true that slight damping makes pressing caser as the cotton becomes softer. Damping improves the staple, and makes it a little stronger and softer. That is the case when cotton is damped one or two per cent I do not thinh that a little damping does any haim to cotton 5040 Mr Rele) I would not have any damping at all It does freshrate pressing but I would rather than a trail all little freshrate pressing but I would rather than a trail all little freshrate pressing but I would rather than a trail all little freshrate pressing but I would rather than a trail all little freshrate pressing but I would rather than a first pression but I would rather than a first pression but

504 I consider that balo should be stamped in the pressing factories by the name of the station at which the cotton is pressed and that from which the cotton comes Legal restrictions must be enforced against pressing the cotton from other talukas. If transport by rail is prohibited, the cotton will be transported by cart I think it would be better to have restrictions on the factories than to prohib t transport by fail I would suggest legislation for been sing guineries and presciples of the cotton forecasts at present are incomplete

5043 (Mr Mangaldas Parchh) They are not accurate but they are use ul

[Continued

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5044 (Mr Rele) More details should be provided. As at present published they are very general, relating to a very big province. Details should be given showing the average yield of the cotton growing tracts in the Province, and the forecasts should be published monthly. Both the Association and the individual nullowners get the provincial forecast from Mr Kentingo's office.

5045 (Mr Parelh) I have some experience of ginning pools at certain places. There are such pools at Surat and Virangam amongst other places. I think they work satisfactorily, from the point of view of the ginners but not from that of the cultivators. Formerly the ginning charge was between Rs. 3.8 to Rs. 4 for twenty maunds (in some places 24 mainds) of lapas. We charge for lapas and not per bale of cotton. Now on account of the dearness of stores, I have heard that, at Virangam, they have fixed the charge at Rs. 6.8 for ginning. The pressing charge last year was about Rs. 5.8 a bale. This year as the prices of hoop iron and cloth have gone up, the charge is about Rs. 6.8 to Rs. 7. Before the war, the charge used to be Rs. 3 per bale at Virangam, Wadhwan and at other places. The pools are not to the advantage of the cultivator but they are not charging very high prices. They exist simply to do away with competition because if there are five or six ginning factories they will compete against each other if there is no pool. The pools make a profit of say fifteen to twenty per cent.

5046 (Mr Hodgkinson) The mixing of seed is not the sole cause of deterioration. Here the cultivators get good manure. If they were to cultivate on scientific principles, the staple would be better. I think the cultivators do their very best to grow good cotton but the clief cause of deterioration in quality is the mixing of seed.

5047 Generally speaking, the cultivators do not pick unripe bolls. If unripe bolls are picked the staple will not be uniform. I cannot suggest any unprovement in the way of picking cotton. I ach place has a different way of picking. In some places, the cotton is picked cleaner than others. There are two methods of picking. In most places the cotton is picked from the bolls in the fields but in the case of wagad cotton the whole boll is picked and the cotton is removed from it afterwards.

5048 Some ginning factories put in cotton seed into ginned cotton to increase the weight There used to be some adulteration of ginned cotton with seed at Viringam but that has been stopped

5049 Punjab American comes in mixed. I have not been able to get any pure Punjab American in my factory. There used to be fifteen to twenty per cent. of deshi in it. I have not vet received any Punjab

American this year 5050 (Mr Rele) We have received about 200 to 300 bales of Punjab American this year and the quality is very good. The mixture of deshi in it is only about five per cent. We bought it at the auctions, where it was classified as containing a mixture of five per cent. deshi. We have bought class A also which is pure but the bales have not yet arrived. We can spin 24s warp out of pure. Punjab American 4T, but if we adopt a special process, we can get 28s warp out of it.

5051 (Mr Parelh) Of course we could spin finer counts with it but it all depends on the climatic conditions of the time at which we are spinning. We can spin lugher counts in the runy season. It is very difficult to spin the finer counts in the cold season. Cumbodra has a longer stuple than Punjab American but the colour is not so good. For certain class of piece goods, the colour does not matter. If the cloth has to be ble iched and dyed it does not matter if the cotton is yellow or white

5052 The gins here are all single roller gins

5053 I am using Uganda cotton in my mills. We only began to use it last year and we find that the Indian operatives are not sufficiently efficient to deal with this class of cotton. Liven the spuning master wants to be trained to use it yet. Up to this time we are spinning up to 20s, 30s, or 40s, recling out of it. The machinery is not very well adapted for that purpose. It is not fit for the work that I want to get out of it but, owing to certain circumstances, I am obliged to spin finer counts at present. The Indian operators have up till now only been habituated to work on coarse counts. It will take some time to train them to use finer varieties but if they are trained they will be able eventually to do the work provided, of course, there is proper machinery. I do not think that as long as coarse counts pay, any one will try the finer counts

1 m buying in new tracts. I buy mostly Surit cotton but I also buy Crimbodia. Last year and this year I have bought Lyallpur Punjub American cotton. When Sind American was procurable, I bought that. The first and second years, the crop was good. Later on the quality of Sind cotton went down and it also became very dear compared with other cotton and so we stopped buying it. I bought Punjub American list year in Bombay. This year we sent our own men to buy at Lyallpur. I think I have got better cotten by sending my agent to purchase at Lyallpur. We bought the cotton on sample. We have not get the bales yet. I think this year is crop is better than last year is. Mr. Rele and I ue the only two persons in Ahmadabad, who have bought Punjub American. We are buying in partnership. Another buyer from Ahmadabad, The Ahmadabad Manufacturing & Calico Mills, Ltd. have made very small purchases.

5055 (Mr Rele) We cannot get pure Punjab American unless we purchase at the auctions and at the auctions we have to pay each down. Our difficulty in getting pure cotton was the difficulty about financing as we could not make arrangements for immediate payment. I have received information that giming has been commenced already. According to the reports of my representative, we are not certain of getting pure Punjab American except at the auctions.

5056 We both advocate the stamping of bales in factories, as it would enable the purchaser to trace the place from which the cotton came. This is most important from the purchaser's point of view. I think that each factory should have a brand of its own which should be registered. One ginning factory may have a good name and the other a bad though both are in the same place, so that it is advisable that every factory should have its own registered mark so as to distinguish the quality contained in the bale. At Ahmadabad, there are two cottons and it would be necessary to have two different marks, one for lalio and the other for uagad.

5057 (Mr Parelh) Here in Ahmadabad we buy ready cotton but we also buy on contracts as well as in the districts where the cotton is grown. About half the mills are in the habit of buying cotton in the district. Disputes are settled according to local rules, which vary in every place. We do not find any difficulty at present in having our own local system and I do not consider that any uniform system of rules such as those of the Bombay Cotton Trade Association is required as at present

Mr AMBATAT SARABHAI

5058 The prices of the various classes of cotton to day are as follows -

| | Rs | | | | |
|--------------|------------|------------------|--|--|--|
| Navasarı | 730 per 77 | 730 per l'handi, | | | |
| Surat. | 715—720 ,, | | | | |
| Syan and Kim | 680 | | | | |
| Broach | 630 | | | | |
| Wagad | 570—580 | | | | |
| Laho | 560—570 | | | | |
| Kadı | 580—590 | - | | | |

All these prices are for loose cotton Rupees 630 is the Bombay price for Breach but it must be less Rs 580 in the district Wo do not speculate so we do not I now much about it than Rs 580 in the district

5059 My experience is that Navsari is not deteriorating We sometimes get very good Navsari cotton

Billimora cotton is better than Navsari

5060 (Mr Rele) The practice of mixing sand with ginned cotton is now not common I have said that I have noticed damping in the Punjab cotton I think it is done intentionally. The kapas is intentionally kept near the small water channels in order to absorb moisture and is then leaded in earts for the market. The reports I have received are to that effect.

Mr. AMBALAL SARABHAI, Mill Agent, Ahmadabad.

LYMINED AT AHMADABAD, FEBRUARY OTH, 1918

Written Statement

II -COMMERCIAL ASPECT

5061 (30) Local trade enstoms—No practice of advances is in force in Ahmadabad itself but in villages the dealers advance money against raw cotton to the cultivators. No future buying contracts are made, but forward sales (delivery in maunds or bales) are made just a month or so before and after the arrival of Lapas in the market. In Sanand, Baula, Kalol, Dholka and in Ahmadabad this system is proval

arrival of kapas in the market. In Samind, Bawil, Kaloi, Blook's find in Amindadoud this system is provaing. Similar system prevails at Kadi, Jotana, Patri, Mehsana, Anand, Pethad, Cambay and in Kathiawar.

(2) Surat.—Cotton is sold in half pressed bales by thands of 796 lbs. equal to 19 mds 17 seers Ahmada bad weight. The agents deduct from sellers Rs. 1 12 to Rs. 1 14 per hands for charges such as brokerage, etc. Similar system also prevails in Navsan, Surat, Syan and Kim districts.

(3) Broach:—Cotton is sold in half pressed bales by thands of 21 maunds each of 41 seers (a seer of 40 tolas). The buyer pays four annas per thands as brokerage besides the commission and sundry charges such as cartage and pressing charges, etc

(4) Hubli—Cotton is sold by nag of twelve maunds (maund equal to 28 pounds)

Kapas is sold in the same way but the rate is fixed per nag of 48 maunds of 28 pounds each

(5) In Ahmadabad, cotton is imported into full pressed and half pressed bales for sale Riw cotton

(Lapas) is aso imported in carts and railway wagons

5062 (31) Standardization of commercial names -The following are the names of some of the important grades

Guiarat cotton-Wagad Muttra Rozi and Kanvi, Kathawar-Dhrangadhra Wagad and Laho Wadwan Morvi Lakhtar Limbdi and Lalio Kumpta

but outstation cuctons are generally known by the names of the places they come from-

Surat-

Navasarı Sayan

Bardoli

Kım, etc, etc

In most of the districts different grades of cotton are mixed and this is very undesirable. The remedy is suggested in this written ovidence at the end

(2) To a certain extent, commercial names of various grades of cotton are standardized at the present time, for example, cotton grown from American seed in Sind is called "Sind American," and this year the cotton grown from Cambodia seed in Dhrangadhra will be called "Dhrangadhra Cambodia" The word 'Sind" and "Dhrangadhra" have to be used because the quality of cotton grown in the particular districts from a foreign seed is different from the cotton grown from the same seed in its local area. Standardization

without any effectual remedy against mixing of seed and cotton is likely to fail
5063 (32) Brying agencies—Speaking from the standpoint of the cultivator and the consumer,
the best selling and buying agency in the interest of both would be one, a sort of banking and triding con cern, which would stop the passing of lapas through many hands, from the cultivator to the buyer of baled

cotton. I shall be glad to give outlines of the schome if desired

Mr Ambatat Saradhai

[Continued.

III -STATISTICAT

5064 (33) Improvement of cotton forceast —Either due to ignorance of or the prevailing belief that the forceasts are not reliable, the Government forceasts have not been much availed of The information asled for by Government in compiling the forceasts is not given by the public with that accuracy and precision with which it deserves to be given. In order to male such publications accurate, there should be legislation to punish those (1) who do not give information in time and (2) which cannot be considered increasinably accurate from the data at the disposal of the party from whom the information is required by Government

IV -MANUFACTURE

(b) Spinning and wearing

5065 (43) Counts spun and market for yarn or cloth—Since sometime the two mills under my management sell very little yarn. The counts spun are from 20s to 32s for warp and from 20s to 18s for weft. Since January 1916 most of my cloth is cold to Alimadabad merchants. The cloth exentually goes to Calcutta, American, Delhi. Agra. Cawipore. Acpai. Persian Gulf ports, Madras, Bangalore. Labore and Sind.

5066 (44) Condition of cotton—Hess in used for cotton baling purposes is usually previously used and of inferior quality, and hoops he justs patched and old and so due to faulty packing there is a loss of cotton in transit. The railway goods vards and enclosures on which bales he are not all prived, with the result that dust and small pieces of stone find their way in cotton and sometimes cause fires in the blow rooms. I cannot say that cottons bought from places other than Bombiy, and which are usually baled under the null supervision, are artificially damped, while some of the lots that are sometimes purchased from Bombiy do show signs of utificial damping.

5067 (45) Effect on cotton market of replacement of short staple cotton by long staple—

5067 (45) Effect on cotton market of replacement of short staple cotton by long staple— It is contended in some quarters that short stapled cotton pays the cultivator better than long stapled cotton. It is also contended that in the case of short stapled, though the price per maind be less, the realization for the yield per acre amounts to more than in the case of long stapled cotton. This may be attributed to two causes—

(1) The stapled cotton being usually in better demand, some of the short stapled cotton of good shade is used by cotton incichants for mixing purposes. The price therefore paid for such cotton is higher than what it should be looking to the quality of the cotton. If no mixing were to take place, the stapled cotton would fetch a higher price and clean inferior cotton a lower price than what they do not the present time.

(2) Taking the above feet into consideration, perhaps the yield of inferior quality of cotton gives a better return than that of the stapled cotton. If short stapled cotton were replaced by long-stapled cotton, and there be no mixing of superior and inferior qualities of cottons, the prices continuity for long stapled cotton will be more than they are at present, which the consumers and experters will not grudge paying

V —GENERAL

5068 (46) Attitude of buyers to improved cottons—The buyers have been prepared to pay higher prices for improved cotton. The Government are doing something in the matter with good results in Surat district. Cotton from known growers of established reputation in Gujarat also realizes a premium over our rent market rates on their cottons. But the quantity of such cotton is so small that consumers have not been able to give it a substantial support as it deserves to get. The consumer is not to be blamed for his indifferent attitude, for, after all what would be the gain to him if only one twentieth of his purchase was only of a better type of cotton?

5069 Remedies for mixing and damping cotton—The mixing of superior quality of cotton with the inferior quality should be penalized, so also damping of cotton—I suggest two remedies—(1) the Rulway Company should not bool lapas except in cases of cotton mills, who wish to have it for their own use, (2) ginning and pressing factories should be licensed and proper arrangements should be made for frequent inspection for

detecting and punishing abuse (mixing and damping)

Mr Ambalal Sarabhai called and examined

5070 (President) I am a mill agent in Almadabad. Wo usually handle Kathiawar, Surat, Hubh and Latur cotton but sometimes we get Liallpur and Cambodia. From Surat cotton, from Syan and Kim we get 32s to 34s weft. For warp we usually use Kathiawar and Hubh cotton. From Cambodia we spin 24s to 28s warp. From Punjab American we get 22s to 24s warp, if it is good, but a lot of mixing goes on there. We buy it at Lyallpur, through our own agent. This is the first year we have purchased cotton at Lyallpur. It is very uneven, some lots are very good and some are very bad. I would not make any general state ment about it. We get 22s to 24s out of it. This is the first year we have been buying Punjab American direct. We used to buy it in Bombay. We sometimes buy kapas. In that case our agent arranges to have it guined and pressed. We only see the bales in Ahmadabad.

5071 I do not see much of the statistics issued by Government I do not rely on them I do not sub

mit ginning and pressing returns

5072 (Mr Wadia) I have some land in this district and my cultivators grow cotton. I have got about five hundred acres under cotton cultivation. It is all leased out to cultivators. I used to get half the crop till last year, but now the tenants pay me a fixed rental. The land I have is inam land and I have an assessment of about Rs 500 per year for 7,000 acres. Though I am a landowner, I have no experience of the actual conditions under which the cultivators grow cotton as I do not go out into the districts my self.

the actual conditions under which the cultivators grow cotton as I do not go out into the districts myself 5073 In Ahmadabad, the cultivators do not send in their Lapas to be sold, it is all brought in by dealers I do not buy on forward contracts from cultivators, but sometimes do so from Surat merchants. I do not buy on forward contracts in Ahmadabad, but I do so sometimes in Kathiawar. In Surat we can depend on getting delivery as a fulc but not so in Kathiawar. In Kathiawar, if the rate goes up they do not give delivery but only give the differences. If they do give delivery, they only do so after a good deal of trouble and then they give bad quality, and make long delays. Usually there is no fixed time for delivery.

Mr Pari Jeshingbhai Ujamshibhai

They live plenty of money and so are very indifferent. When buying forward, we give them deposits the price goes down, we get delivery and if the price goes up, we are pud the difference. It is a sort of cover against the sales of cloth. We can not depend upon the cotton. In Surat, there are four charges dharmada (charge for charity), brokerage, weighment charges and storing charges. The total amounts to Rs. 1 12 0

5074 Both in the Surat districts and in the districts around Ahmadabad, if the cultivator brings in cotton from his own fields, it is not mixed but if it is brought in by merchants or banias it is usually muxed Even if dealers buy ginned cotton, they mix it purposely I am in favour of heensing of gunneries to pic vent adulteration

5075 Railway companies should not book lapas except to a cotton mill to be ginned and consumed in that mill Some mills have their own gins on the premises and therefore they would he clapas brought in so that they can gin it themselves. A special exception should be made in their favour. Otherwise all booking of Tapas by rail should be prohibited. Some of the mills here have giving fretories in other places such as Hubli. If they wanted any cotton from those districts, they should be allowed to take it to Hubli, gin it and then send it to Alimidabad. They should be allowed to transport Tapas for their own use but not for the market I I now that Broach cotton goes to Surat and so also dees cotton from Ujjain and Khandesh. In consequence, a lot of mixing goes on in Surit There will be less chance of mixing if transport by rail is prohibited They could transport cotton in earts but that would not be in very large quantities. Some arrangement might be made for penalising such transport

5076 Surat cotton is not as good as it was six or seven years ago. At one time I used to spin 32s warp from Navsari and for doubling we used to go as far as 40s. Now we find it difficult to spin up to 28s. There are some good lots from which we can spin 32s but they are rarer than they used to be. The reason why we have to go to places like Hubli and Combatore for long staple cotton is that we cannot get the long staple cotton here that we used to get Besides the Japanese buy in advance and in the season no cotton is available for us In Dhrangadhra, the Japanese bought 8,000 bales before the crop came into the market. So we have to go to places where the Japanese are not buying. They are buying very freely in Virungam and Kathiawar. Formerly they only used to buy clean cotton from Surat. now they do not mind even Porbanda.

cotton which is very dirty
5077 (Mr Hodglinson) There are two classes of banias One class buys the seed cotton and the second class supplies seed and gives advances for labour and other charges and there buys the lapas at a fixed rate. It is very difficult to give the percentage of the value of the crop that the bania advances because the cultivator does not confine himself to one bania. If he wants to buy a bullool he goes to one bania and if he wants to buy seed he goes to mother. The money is advanced before the cotton is sown. If there is a big rise in price in the market, it is the bania who gets the advantage of it is he fixes such a rate that

he were losses by it. In my village the cultivators we get the advantage of it is he fixes such a rate that he were losses by it. In my village the cultivators we getting poorer and poorer every year. I find so in other villages also. I am tall mg of Gujarat especially the S mod district.

5078 We can get 24s warp and 34s weft from the Punjab American. That is from the ordinary mixed market stuff. I could not say what is the percentage of deski in it. The lets vary very much. One lot of fifty bales is quite different from another lot of 100 bales. If we have 2,000 bales, we go through all the lots and mix them ourselves. I have had no experience of spinning pure. Punjab. American. Except in very rare cases, we do not get pure cotton in India. I once tried Sind. Egyptian, I bought it at the nuctions of the Agricultural Department. I found it very good but the staple was uneven.

5079 The loss of cotton in transit from Surat to the mill in half pressed bales of fifteen maunds comes to about three to four lbs. The loss in full pressed bales is less. Rusty hoops are not used to the same extent for mull a bales as far half pressed bales. If superior and inferior qualities were not mixed, the trade

tent for pull a bales as far half pressed bales If superior and inferior qualities were not mixed, the trado would pay an adequate price for the superior quality. If we were assured of the quality, we could pay the proper price. We pay a proper price for cotton from America as we know what we are getting. We should be prepared to pay a higher price for pure cotton in India
5080 (Mr Roberts) About 500 bales of Cambodia are expected from Dhiangadhra this year This

is the first season it has been grown there and the cotton is expected in April or May

5081 I had a ginning factory at Kalol which is about an hour's journey by the metre gauge railway from Ahmedahad which I managed for two years. I found that the pure Kalol kapas was good but that they used to get lapas from the adjoining short staple districts, and sell it as Kalol cotton. If the cotton was pure, there were only, 1,000 bales of it but, by mixing it became three or four thousand bales. They found that it paid them better to mix than to sell the cotton pure, as the purchaser dud not know whether be was buying the mixed stuff or the pure staff The middlemen do not suffer at all Mixing upcountry is intentional as it pays the middleman to mix One bania gives advances to fifty cultivators. He buys is intentional as it pays the middleman to mix. One bania gives advances to fifty cultivators. He buys a particular quantity from each cultivator. That means that fifty cultivators give him fifty different sorts of kapas he mixes them all up and takes them to the ginning factory

Mr. PARI JESHINGBHAI UJAMSHIBHAI, Commission agent, Ahmedabad.

Examined at Ahmadabad, February 9th, 1918

No written statement was submitted by this wilness

(Translation)

5082 (Mr Wadia) I am a cotton commission agent I was first doing business in Akola and Hubli, 5082 (Mr Wadia) I am a cotton commission agent. I was first doing business in Akola and Hubli, but it is long since I closed my business there. At present I do business on commission in Wadiwan, Virungani Surat and Ahmad abid only. I buy on commission for Bombay and the Ahamadabad mills. I buy for the Jeliangir Vakil mills at Ahmadabad, and for another mill at Bhavangar. I buy mostly at Wadhwan and Virungam for these mills, but I also buy cotton grown round about Ahmadabad, Saran, Morvi and Surat, I get one half per cent commission on my purchases. The mills pay for the cotton when they have the rail way receipts in their hands. I buy most of my cotton from dealers not from cultivators. I sometimes advance money to dealers who bring me in lapas. I get the cotton gianed both at Wadhwan and Ahmada bad. The usual charge for gianing is about ten to twelve annas per maund of gianed cotton. A maund is equal to 41 lbs. When I buy for the mills, I only buy lint but when I buy on my own account, I buy

Mr MANICESHAW DINSHAWJEE

Lapas to sell again. I deal in lint myself in Wadhwan. I sometimes supply my own ginned cotton to the mills at the market price, and then I chargo the usual commission. The price to day of Wadhwan cotton is Rs. 31 per maind. For Lapas the price to day is Rs. 10. The ginning per centage is 33. In Wadhwan there is only one quality of cotton grown which is called uagad and so there is no mixing done. The seed is sold at Rs. 1.10 per maind. The sale of cotton seeds nearly pays for all the expenses incurred, from buying Lapas to making it into ginned cotton.

5083 (President) In the Wadhwan and Morvi State, it is the rule that the cultivators can not grow any other cotton than uagad. So the cotton is absolutely pure. Round Alimadabid cotton is grown mixed. Two varieties are grown, lake and uagad. The cultivators bring them separately for sale. As the lake cotton is mostly in demand here, the uagad cotton fetches a lower price so the cultivators take their uagad.

cotton is mostly in demand here, the uagad cotton fetches a lower price so the cultivators take their uagad lapas to Sanand and Viramgam. The price of the uagad lapas which is taken to Sanand and Viramgam from the Dhaskrot taluka and from round Ahmadabad is the same as the price at Wadhwan

Mr MANICKSHAW DINSHAWJEE, Sub-Agent, Messrs Rallı Brothets, Broach and Surat.

EXAMINED AT BROACH, FEBRUARY 11th, 1918

Written statement .

I -AGRICULTURAL EXPERIENCE

(b) "Deshi" long staple cotton

5084 (10) Experience —I have been stationed in Surat District for the last 34 years. I am not in actual touch with the eotton cultivators

5085 (11) Varieties —The long stapled cotton called Surfec is generally grown in this district tracts surrounding Natsan produce the best cotton, while those wound Kim Sayan inferior styles

5086 (14) Rotations and manures -No manines are used, but it is customary to sow, alternately,

5087 (15) Conditions affecting increase in area—Although labour supply is day by day getting scarce, and in spite of the necessity of observing rotations the cultivation under cotton is increasing every year, at the expense of food crops, the reason being, among many others the cultivators realizing hetter prices for their lapas than food stuffs

5088 (18) Uses of seed and seed selection —The seed is generally used locally as fodder and a part of the supply in extracting oil, and what it is exported to other districts is also used as fodder. A good deal was also exported to Europe before the war. Hand ginned seeds are generally preferred by cultivators for sowing purposes, but as these are not available now a days, the machine ginned seeds are used

II -COMMERCIAL ASPECT

5089 (30) Local trade customs —Cotton is brought in the market for sale is under —

I Kapas (cotton with seed as picked from the fields)

II Cotton muchine ginned in factories outside the district
III The Lapas is brought to the factories for sale by the cultivators direct, and by petty traders brokers, who buy the cultivators' lapas in their villages, some of the cultivators sell their lapas, hefore it is ripe in the fields, to the triders who make them advances against such sales

5090 (31) Standardization of commercial names —The commmercial names of the grades are "choice," "superfine," "strict fine" and "fine" All these grades come from one and the same area, but at different times of the serson and chimatic conditions,

III -STATISTICAL

5091 (33) Improvement of cotton forecast -The forecast figures at present are nearly correct so far as the area sown is concerned, but the forecasts of outturn, in quantity, at times differ from the actual

5092 (34) Improvement of other statistical information—No returns are published either by gin owners or press owners, I would suggest that all these figures should be taken and published by the Department of Statistics, and I would recommend, in this connection, also that a system of licensing of guning and pressing factories should be instituted, as I think that, if this is done, correct figures could be easily obtained

(2) I would also point out that the cotton crop forecast might be amoliorited by drawing the estimate to a greater extent than is the case at present from non official agencies, such as local merchants, mills, gins, presses, etc., and too much rehance should not be placed on the official reporting agency, which is at present

a revenue agency rather than an agricultural reporting agency
5093 (35) Publication of Liverpool and Bombay prices —I do not consider this necessary as these prices are already known through Bombay agents of ap country merchants

IV -Manufacture

5094 (36) Type and number of gms and presses —The gms m onr district are single rollers The pre s is Nasmyth Wilson

5095 (41) Condition of cotton -Generally the condition of raw cotton, arriving in the market, is satisfactory, although in some cases adulteration, such as damping, etc., is resorted to

V —General

5936 (48) Attitude of buyers to improved cottons -The cultivators get better prices for improved and carefully picked cotton,

Mr Gularbhai Bhagwanji Disal.

[Continued

Mr Manickshaw Dinbhawsee called and examined

5007 (President) I am Meara Rulli's agent and have been for over 31 years in the Surat district. There has been a marked deterioration in the local cottons during the timo that I have been here. This is particularly the case with Navari cotton which is the best of the local cottons. The staple is getting shorter. I do not think there is any admixture going on with inferior grades. It is perhaps due to the fact that there is no rotation of crops or that no attention is paid to seed achetion. Broach is also deteriorating. The reason of deterioration in this ease is that the gin owners and others are bringing in inferior lapas from other

districts and the seed is getting mixed. I have got no experience of ginning mixelf.

5008. The figures in the cotton forceset are always inaccurate. They are sometimes too high and some Sometimes in order to facilitate speculation, some people spread reports that the figures are two high or too low according to circumst inces. I would recommend that Government department should get more in touch with the trade as I think the forecast would thereby be improved. The returns from gins and pre see are very meomplete, and their submission should be made compulsory by the heensing of the factories. At present they are of no use to us at all. We have a large agency for making forecasts ourselves In many invances our forecasts are more occurate than Government ones and a great deal of our success

depends on that A great deal of time is devoted to them by our resistants

5000 (Mr Balia) In my opinion, broach cotton has gone down in price and in quality tion in the quality of the cotton may be attributed, in the tirst place to the fact that cultivators usually sow cotton after cotton every year, in the second place, to the fact that they bring in inferior cotton from other districte. I have never heard of Khandesh or nathio cotton being brought here. The gin owners prefer the style of cutton which they can easily mix with Proach. I also cotton will mix easily with Broach. Gog for cotton is also mixed with Broach desh and Surat desh. I do not I now where goghers comes from particularly but rates as I know it is not a foreign cotton. For many years past the cultivators have been using the recedent of rate has become mixed with Broach. This mixture of goghers with desh has tended to spoil the crop. I can have pure cotton in Surat, and that is the only cotton I buy If my mixed cotton is offered to 1 e, I reject it We buy under condition. Of course every thing depends upon the selector he is not experienced, I e is not to be decived. We buy loose cotton. I enunot tell whether lint is mixed tive or ten per cent. But I ear tell whether cotton is pure from the staple. I reject the cotton if the staple is ruxed

5100 I get in cotte i kinned and presed in the Mahomedpura cotton kinning factory in Surat. We have got a working arrange into with their there and pay a fixed price. They have now joined, the pool The charge for pressure, is now Rs. 6 per bale. Before the way, i.e., three or four years ago, the charge was from Rs. 2 S to 2.12. The very three is a combination and so the rates have gone up. When there is no combination, the owners of the different pre-es compete smong themselves and that I ceps the rate low Labour is very dearnow and the precess after exceed as oil and fuel have also gone up. That is one reason for the interest of the chaffer on is the pool. If there were no pool, the pressing rate would be a larger than the chaffer of the charge that the chaffer of the charge that the charge t

for the increased charges but the chief rea on is the pool. If there were no pool, the pressing rate would probably be about Ps 3.5 per bale. The charges would then be fixed according to the competition to secure the pressing. There are 1 ming probably will not pressing pools. Of course in such ease the cultivators are 1 beens a painting combination is made. I think that pools ought to be stopped and 1 he mixed of short and len, staple contour is carried on in the pinneries to some extent. This looks what happens is very control fetche a very high price owing to its long staple, the cotton of Syan and kin fetches a lower price. The distance between the applicant very first and so the gainers are induced to buy kappes from Syan and king to may with Naveur. If this is allowed to continue, Naveuri cotton will certainly be either at too. The soil is very rich in past years the quality was far superior to other cottons in brightness, full it is and in every way. Now it has no cotton continued in Pilmera. During the last four or have years now lands have been opened up and cotton here been cultivated there but when there are heavy rains the ground is such that the crop is apt to be washed away. When there is not much man, there is no good crop there and as the soil is virgin soil, to be named and WI on there is not much i'm, there is a good crop there and as the soil is virgin soil, it is good as regards quality. Lapos is 1 of imported into Naveari by rail but the cultivators bring in their carts in order to get higher prices by passing off the cotton as Naveari lapas. They do not import any lapas by roll

5102 (Mr. Holgler can) If the Lapue is picked with care and is bright and is free from damp, the cultivators get letter prices because the gimmer all make cert in allowances for drying. The cream of the cotton erop is the first picking though the first pickings are not good when they contain premature growths. There are three pickings. The first and second pickings are the best. The best time to pick cotton is after 8 a M. when no dow stiel i to the cotton. If cotton is picked with the day, on it, the leaf sticks to it 5103. I have no experience of swaging Our given and single roller gins 5101. (Mr. Roberts.) As one goes south from Ahmadabad, the cotton improves. Navsan better than Swat south.

better than Surat cotton. Kapos is excised by road from north to south all along the tract and this tends to deterior its the better cotton. If the Collector were to give orders to the Manlatdars that kapos, should not be carried from one district to another, then the practice would stop

Mr. GULABBHAI BHAGWANJI DESAI, Manager, Sisodra Ginning Factory, Amalsad, Bombay.

LXAMINED AT SUPAT, LEBRUARY 12TH, 1918

Writter statement

I - AGRICULTUPAL EXPERIENCE

(b) "Deshi" long etaple cotton

5105 (10) Experience -I am a resident of a district in which Navari fine and Surat fine cottons are grown I have been in actual touch with cotton cultivators of the sind districts as well myself being a cultivator and more of a merchant dealing in these kinds of staple cotton. I am also a partner of a ginning factory, known as the "Sisodra Ginning Factory," situated at Sisodra in sub district Jalalpur.

(Cortinued

5106 (11) Varieties -I am family with do In long styled eetten known a the Am are frecotion grown in the districts surrounding Airsiri while the Strat fee cotton from in the sub-districts surrounding Strat such as Ohoid Stan, Kin Birdoli etc., and of ein the place saturated encotter side of the Tapti Valley Rule is between the stations of Surat Isrdeli and a far a North 5107 (12) Size of holdings - The average eight of the holdings in which coston is grown is

approximately eight acres and the proportion of the holding under cotton is nearly he is of the tenfaces 5105 (13) Yields and profits and comparative relures — The even explass precious as under —

(a) In Naveur Dietrict, it is about 180 II to 200 lbs for sere (b) In Bardoli District, it is about 200 Ib to 210 lbs for near

(c) In Surat district and surrounding place of is ubout 150 lb

(2) The average profit per a re in all the absect of placeds during the period of ten veria before the war, about P. In per sere and during the ethice year of ve is if cut h. 15 to Re 20 per rete coing to the high prices of cutten

(3) Comparing the dedelone stapled cotton with the detect etspled certex the pecket the fection is somewhat more than the latter but the yield in less, and compared with other deductors at reversing according to the price of various lands of original executive exceptions.

(1) As for the exotic cottons. Learn as from my person lexistic cottons in the afore aid districts and place in the climate line of first tree. The following the cottons as American and Laytian. The informacis mode from my person dexperie to increase my charmer I sowed some seeds of Lapping cotton in my said and old on hith other of the seed half and hor fire in my great number they did not open to well to the 2 the, the time plant exercite erred till text on a 1 and they have no many fruits as before but the opening of the firms fold as 1 fere, to 1 come to the conclusion that the climate does not seem to be seenable to be connected, ean with the I am of opinion that if experiments are in de on encil tracts by a rightural experts, under supervise i et the Local Government, the defects may be found out, and need in a la arrived of local a factors of this part of the district are for the most part not advanced rapers offered section of discources to a ske agricultural innovations

5100 (14) Rolallons and manures — In the part of the data? the cotion is percent want one third you and par proundents for and community and are used as so the last expenses to prove the data. poved that plantations of groundmut) and comming are the errors elected to combit less der he retained lace thereof mixed with the roll decompose and a vettle jury or of a lune and also the exercise profit obtained thereby is commonly line but the plantation of the professional and the entry is an incommon and continued and continued as a major in the part of the distribution of the first of the distribution of but the former cannot be laid in a that entities each count of the extilation, in No a shall nunder the farmers apply manure to keep land only in who hapolds a periodic over and the keep related better two crops every vers—her topolds and then rate to the lower state of indices and to proposed by the first company at lands which is need for contour and other crops well only a corporate version to fore crops who had a corporate version to fore crops who can afford to secure cufficient quantity of manure new apply it to profit to

(2) Here in connexion with the que tion of matoure, I more pinnon if it the farmers of the province of Confirm do not posses a sufficient neces of land to feed love canalier of earths and anthony larger on ber of eattle, manure renot sufficiently pathered and there are no farmer is the to in sure every vear all they become of find he may have, and this ingenerally due to the reason of the tovernment landers and the west of the kharaba (waste) find in most of the villages which were formerly received for graying the village extra

5110 (15) Conditions affecting increase in area—in commonon with this question I can from experience that the cinimg sea on here very often commence abter than in the districts who envises short stapled cotton is produced, because the desholonor stapled cotton require them erting to finit buil there foro the ginning serson in this district is rather slighter and Is believed to I nve evicet en incresse of area under cotton cultivation

(2) Food crops are also as essential as cotton and era signal o an amportant factor to farmer a therefore overy furnier is generally obliged to utilize his land for all different lands of erops, that may be nece for him, and therefore the increase of area under cotton may be instinally restricted to a certain extent

(3) firigation is not neces are in this destrict for cotton crops, but lalour supply is very difficult to obtain for all agricultural purposes and therefore want of sufficient labour supply has some effect on the incresses

of area under cotton cultivation

5111 (17) Prevention of mixing of different varieties—Mixin, of de la long stapled cotton with the deshi short stapled cotton is not practised in this district nor with the exotic cotton. All of there is not the least possibility of mixing of such cottons in the field or well as in the factories because the method adopted for effection of cotton in this province is very severe and accurate too as fer my pasable

5112 (18) Uses of seed and seed selection -- Cotton seeds in this district are penerally used as earth food, they may also be used for manufacturing (cotton) seed out last the use for the former is greater than far the litter These cotton seeds were exported to I igland and other I propen countries by I projecti firms before was broke out in I prope but now, on account of the searcity of freight, the export has been

put a stop to to a cert no extent

(2) Seed selection is one of the most important points in producing good staple cotton everywhere, but very little attention seems to have been juid by the formers in this direction. The general practice of obtaining seeds for sowing in this part of the country is to purchise reeds for sowing from the heap's stored up in the ginning factories or from the incichants who may have aire idy bought from the ginning factories, and, therefore, the seeds for sowing are not considered as pure as they ought to be, and hence the state of cotton cannot be successfully improved, wherefore some precautions are required to be taken for relection Seeds tal en out by hand gins are considered best for sowing but that practice is now obsolete time the introduction of the giming factories, moreover, hand binning is not an economic process, and so the old system of hand gin has now quite disappeared. But it is an established fact that seed selection is absolutely necessary in every part of the country to improve the condition of cotton, and I believe that the present Gov ernment Agricultural Department has inade experiments to produce improved cotton by sowing selected seeds in various parts of this district, and also presented the result of nucle experiments to the farmers of overy quarter, holding periodical agricultural exhibitions, but nost of the farmers of Gujarnt are illustrate and soom to be correlated to the fallow made and the farmers of farmers of Gujarnt are illustrate. and seem to be exclose too to follow such improved methods, therefore, I am of opinion that seed defots should be opened by Government under the strict supervision of the Asricultural Department to store up

Bombay 1

Mr Gulabbhai Bhagwanji Desai

[Continued

best kind of cotton seeds and the faimers of the surrounding places should be forced to purchase seeds for sowing from such depots, because by the present practice of seed selection the state of cotton is not expected to improve, but on the contrary, it is feared that in the long run the deshi long stapled cotton will be degenerated

II - COMMPRCIAL ASPECT

5113 (30) Local trade customs —In point of marketing cotton, there is no regular market in this province where buyers and sellers assemble together, nor there is any regular association of cotton merchants, but the general practice provident at present here is that the agents of buying houses of different parts come and reside in Surat near the railway station where gin owners from different quarters daily come to Surat and meet together in in open mena near the rulway station and make verbal bargains There are no written contracts made betyeen the parties lil e Bombay and other markets, nor there is any formation of regular business, and without which great disputes arise sometimes between the partier, which is a matter of regret for such an important centre of deshi long stapled cotton lil e Surat

(2) No money is advanced for cotton purchases, but payments are made immediately after the delivery is given , future purch isos are generally - practised, but-they are all verbal bargains and such bargains are made

through the brokers

(3) There is not a fixed date in the Surat market hile Bombay and other places for the settlement of forward contracts, but delivery is made in convenient lots and on convenient dates suited to the parties ion cernicd, and the amount of Rs 2 2 0 (rupees two and amias two only) assigned for the cost of brokerage, charge of total, market etc., is generally borne by the seller. No other I ind of discount is given 5114 (31) Standardization of commercial names.—The commercial names of cotton coming from

different localities are generally I nown by the names of principal town or talula from which cotton comes,

and these names are suitable to distinguish one from the other and no alteration is desired

5115 (32) Buying agencies —With regard to buying agencies, I am of opinion that, in absence of regular markets, it is difficult to establish regular agencies and in order to facilitate the buying houses the Committee is requested to recommend the Government to form a regular market and a committee may be appointed to regulate the work and some special rules and regulations are required to be made for such constitution

III -STATISITCAL

5116 (33 and 34) Improvement of statistical information—The present statistical information published by the Government, with regard to cotton may not be considered so accurate as it is believed, because there figures are gathered from the cotton press returns, but the half pressed bales which are pressed in the local guming factories and which the agents of the mills send direct to the mill premises without having full pressed are not taken into consideration and so they pass away unrecorded, and therefore, if all the buying agencies of this district may be directed to supply all such figures accurately. I believe the statistical information may be published more accurately.

5117 (35) Publication of Liverpool and Bombay prices—With regard to the daily publication of Liverpool and Bombay cotton prices in this market, I am of opinion that it is urgently necessary for the cotton.

dealing public, and such daily publication, if arranged, will prove very important to the cotton dealers, because, for want of such publication, the dealers very often fall a proy to sudden fluctuations of the market, otherwise they have no other sources of information, because most of the merchants seem to be unable to bear the charges of daily messages of foreign markets and therefore the Committee is requested to weigh the

importance of such daily publication

IV -Manufacture

(a) Ginning and pressing

, 5118 (36) Type and number of gins and presses —I have got Platt Brothers' single roller gins in my factory and they are 28 in number

5119 (37) Size of bale -The size of the balo (lachcha pressed) is four feet in length, three feet breadth

and five feet in hoight

5120 (40) Factory labour -The factory labour is now a days very difficult to obtain, as the labour ing class goes in large number to seek labour in foreign countries, such as various ports of Africa and in the interior part also, where they find employment in constructing new railways and such other manual labour in bridges, etc. Moreover, those who were formerly real farmers have assumed a new mode of life and they were replaced by the labourers, and among all these the Factory Act has added fuel to the fire to a certain extent

5121 (41) Condition of cotton —The condition in which raw cotton leaches the factory in this district does not appear to me in any way objectionable

V -GENFRAL

5122 (46) Attitude of buyers to improved cotton -So far as my experience goes no attempt is said to have been made to offer any premium to encourage the growth of improved cotton from the buyers in the past 5123 (49) Effect of tenure of land —I do not consider the tenure, on which land is held, anyway

affects the extension of cotton cultivation
5124 Publication of American collon reports —In conclusion, I beg to request the Committee to make arrangements to publish in this part of the district the cotton cultivation reports which are published by the Agricultural Burcaus of the United States of America in their weekly or monthly periodicals, so that many of the farmers hereof who are educated may take advantage of the different methods adopted by those farmers of the West who are far advanced in the science of agriculture and especially of cotton cultivation

M1 GULABBHAI BHAGWANJI DESAI called and examined

5125 (President) I am the manager of the Sisodia Ginning Factory, Amalad We gin cotton for We buy the lagar, gin it for ourselves and sell the lint to merchants Sometimes we gin er ourselves

hombay]

Mr Tribhovandas Pranjivandas Roowata

5138 If the reports of the American and Egyptian Agricultural Departments were published in this country, the cultivators would know what is being done in other parts of the world to obtain the best kind of eotton by improving the state of land, by manuing it and by improvements in other ways, a kind of know

ledge which it is difficult to obtain in this country

5139 The present system of selling is that the brokers from the gin owners go to the cultivators at their houses and buy their cotton If markets were established, the cultivators would have to thinge their pre sent system and, instead of selling cotton in the villages, would have to bring it in here. That would facili tate the sale of lapas In the present circumstances, we have to loiter about from house to house cultivators cannot make up their minds as to the rate they want for them lapas and give us trouble in many I am therefore strongly of opinion that a central market would be of great advantage to the merchants

ın gereral

5140 I should like to draw the attention of the committee to one special point which is that cultivators here have great difficulty in obtaining manure because there is sufficient land on which to graze their cattle. All the I haraba (waste) lands have been sold. Formerly it was the custom to use these tharaba lands for grazing eattle and so the farmers at that time used to real a girch number of cattle. Now the number of cattle is decreasing and unless the soil is manured, the outtime of cotten will be limited. If land were given for grazing, an increased number of cuttle could be reared and there would be a more plentiful supply of manure

Mr TRIBHOVANDAS PRANJIVANDAS ROOWALA, Agent, Messis Narandas Rajaram & Co. and the Surat City Press Co, Ltd, Surat

EXAMINED AT SURIT, FEBRUARY 12rm, 1918

Il ritten statement

II -COMMERCIAL ASPLCT

5141 (30) Local trade customs —The custom in Surut District is that the farmers generally sell then lapas to local increhants, who are in most cases gin ewners. These gin ewners employ brokers to buy lapas from the farmers and they are paid a small brollerige by the gin or ners. This system, generally speaking is advantageous to the farmers because they have not to depend upon one or two buyers, but they get the highest prices possible at the time of selling. These gin owners sell their lint either forward or ready. Their solling

depends upon the opinion they hold about fluctuations in the market

(2) The Surat District cotton crop is mostly bought by Ahmadabad and bombay mills and to a small extent by exporters, chiefly Japanese They buy forward or ready as suits them, and the principal market for above cotton transactions is Surat proper. The fluctuations in this cotton are guided by quotations from for above cotton transactions is Surit proper Bombay markets, especially of Good Brotch

(3) The system prevailing for approval of cotton is that the buyers go to ginning factories for selection, and they have to select according to the quality of the crop as produced during each serson. If the quality tendered is lower than the average quality of the year, the buyer rejects and has a right to ask for a fresh tender The seller in this case is bound to give a new tender or, in default, he has to pay the price of the day of settlement of contract. The buyers select each bale (half pressed or three fourths pressed) separately

and the system prevailing his proved to be very good for the trade

(4) The Advance system—(a) Advances against standing erop is as follows are called jalap—I armens sell Lapas at a fixed rate and get as an advance twenty to fifty per cent of the selling price, and the balance is paid when they give delivery of the Lapas in ginning factories—(b) Farmers get money from sahukars on the crop (estimating outturn from fields) and when the crop is ready these farmers sell the crop, and the inconey

so recovered is paid to the sahukars

(5) Cotton cultivators in the Surat District are very intelligent and well informed for their class sell jalap lapas too on a parity with rates of cotton ruling in Smat and, in my opinion, they get fair rates for their jalap sales too. The jalap system in the Surat District is not in any way disadvantageous to the farmers, but when the crop fails or the quality becomes bad owing to unforescen circumstances, then only buyers of *Lapas* have to suffer In this case buyers have to defer repayment of their advance and for quality they have to take the lapas as it is

(6) I find that m my experience of the last fifteen years ryots have had to sell then lapas every year at the time of what is known as kist, i.e., prying Government dues. They are not able to hold their produce then even if the parity of rates prevailing be not very paying to them.

(7) Co operative Credit Secreties in Surat District have not yet commenced, work of advancing to cultivators against their produce even at the time of Government dues. It would, therefore, be very helpful to

tation against their produce over at the time the continuous terms, if Gevernment stats Agricultural Braks to finance the cultivators of ops
5142 (31) Standardization of commercial names—In the Surat market, cotton is sold according to various villages where there are gins. No changes its required in gins, but unfortunitely gin owners (in tracts growing better cotton) bring lapas of lower quality by rules or carts, which requires to be discouraged by trade

III —STATISTICAL

5113 (33) Improvement of cotton forecast —The cotton forecast is not need nor known in the districts, to interest local merchants and cultivators in this, it is necessary that copies of the forecasts for each district be published in vernaculars and bo distributed broadcast amongst farmers and merchants and gni and press owners. If this is done, the merchants and the farmers will begin to be interested in this forecast and they would entities the same and the following year they would make suggestions also, if approached by the Agricultural Department, before they send in their roturns. Unless the farmers and merchants in the districts are thus interested in this forecast, the value of this forecast will not be fully realised by the trade 5144 (34) Improvement of other statistical information—The cotton press returns as at present published are incomplete. Very few press owners send their returns punctually and some sort of a light check

or compulsion on them to do this is necessary

Mr Tribnovandas Pranjivandas Roowala

[Continued

5145 (35) Publication of Liverpool and Bombay prices—The daily publications of Liverpool quotations in Sui it District would be to the advintage of every one here because the Surat District crop is the only cotton closest to the American cotton. Of course, such quotations are necessary only for guidance of the course of market and care should be taken in reflecting in the Liverpool quotation only the normal course of that modest and not amount of the course of the modest and not amount of the course of the modest and not amount of the course of the modest and not amount of the course of the modest and not amount of the course of the cours of that market and not unnatural or temporary squeezes or depressions
(2) Regarding Bombay market quotations, "Good Biorch" quotation would be desirable for Surat

mirkot as-

(1) There is no regular quotation for Surat cotton
(2) The Broach dolivery is for April when the Surat crop is marketed (3) Because the Surat and Broach rates have sympathetic fluctuations

It does, however, so happen that many a time the market in Surat goes up irrespective of dullness in the Bombay market for Good Broach, however, I believe, quotations of "Good Broach" will be some guide in the course of the market to Surat merchants and cultivators

IV -MANUFACTURE

(a) Ginning and pressing

5146 ((36) Type and number of gius and presses —The class of gin, used in our districts is roller gins and presses, steam press of the ordinary type prevalent in India. There are 35 ginning fretones and oight press factories in the Surat District

5147 (37) Size of bales—The size of bales pressed in our factories is the ordinary size me isuring

rbout 27 tons per bales 100 (Bombay Chamber scale)
5148 (38) Saw gins versus roller gins—From reports that I have heard, I do not think saw gins have been tried in our district. There seem to be certain prejudices against saw gins, but I see no reason

why saw gms should not suit our Surft crop
5149 (40) Factory labour —Duing the last ten years, labour for factories is getting more and more dear
and difficult to obtain. It is not likely that labour will be appreciably cheaper in the new future and there
fore it is necessary that labour saving appliances should be introduced.

(2) I understand that in America gins are fed automatically from godowns where kapas may be stacked If such an arrangement be introduced in India, it would release a good deal of labour and make ginning censis derably cheaper, as gin factories would thou be able to run 24 hours which will mean a very great saving in ginning charges thus lowering the same. I feel that this is an improvement that is bound to come on, but the earlier it comes the better will it be for all concerned, viz, buyers, oultivators and even the ordinary public employing labour

5150 (41) Condition of cotton—The lapas that arm as m graning factories is generally damp and is invariably exposed by the cultivators to the night dows with the intention of graining in weight. Gin owners, therefore, are compelled to keep the lapas carts waiting outside the gin compound till about 9 AM so that the same may get dired by the sun's heat Some ryots complain about this and the popular impression wrongly is that give owners deceive or liarness cultivators. But in our districts, oultivators, as a rule, are not only intolligent but verge on the point of shrewdness and sharpness and they are fully the to look after their honest interests

(2) Then, agun, some merchants douling in kapas take lapas from lower districts, like Sayan, to ginning frotories in botter districts like Navsai, which should be exposed and even stopped by Government. I am fully alive that it is not easy to suggest a remedy for stopping this sort of earrings of *kapas* from one allege to another without having a staff of officers to supervise carriage of *lipas* generally. I do not

boliove in any considerable interference in trade by Government officers.

(3) My experience is that Government officers, honest though they may be, are not in good touch with the needs and tricks of traders and therefore they either exaggerate standing exils or remedy them much too strictly and are also liable to be musted by solfish people in the trade who may flatter them (to selfish ends) Of course, I have come across really capable and well meaning officers of the Agricultural Department of this district who are known to have done real solid good in their own spheres of work, but such officers have not

been very many in number

(4) There is not much to complain regarding the condition in which cotton reaches pross factories in (4) There is not much to complain regarding the condition in which cotton reaches press t befores in the Surit District. The only drawback is mixing of kapas in gining factories is mentioned above, in which case the cotton presents a mixed steple. To control all this, the first thing which we can do is to prohibit import of kapas or half pressed bales of cotton into Surit District by iail. This will ensure that the bales despatched from stations in Surit District contain cotton grown in the Surit District only. Similar imports should be prohibited by sea also, secondly, there should be a small committee of respectable buyers and sellers in Surat to report to the Government through a central committee in Bombay on the conditions prevailing in Surat District from yen to year. This committee should supply all necessary information to the Central Committee in Bombay and should also be consulted regarding becausing of factories. I expect these measures to have about a good deal of improvement withous equising any harassment to honest to does these measures to bring about a good dorl of improvement withous crusing any harassment to honest traders

V -GENERAL

5151 (46) Attitude of buyers to improved cotton — In my experience, buyers have shown a great desire to pry adequate premium for long stapled cotton over short stapled cotton. The difference between Navsun and Say in cotton, which about ten years buck was Rs 7 to 10 per khandi, has, during the list two years, been as high as Rs 40 per khandi, mill buyers being keen purchasors of Navsari and buy same even at such an advance over Sayan cotton. There is no doubt that the masters of mill owners are anxious for genuine long standed action, but in the condition of the condition at such an advance over Sayan cotton There is no doubt that the masters of null owners are anxious for genuine long stapled cotton, but in the present conditions there are many temptations and difficulties in the way of practices and customs in upcountry, and when these latter are brought under control, I have no mis givings that mill owners will continue to be perhaps the best persons to appreciate unadulterated long stapled cottan

Mr Tribhovandas Pranjivandas Roowald called and examined

5152 (President) I am in agent of the firm of Messrs Naturdas Rajaram & Co, the firm of the Hon'ble Mr Purushottamdas Thakurdas I havo no personal experience of eo operative credit societies, but I

Mr Tribhovandas Pranjivandas Roowala

[Continued

understand from cultivators that they do not like these societies. They are rather prejudiced against them as third they are Government just tut ons. The capital for agricultinal banks proposed in my written evidence is to be subscribed by sahukars from districts or from Bomb is If such binds were started, they would get considerable money Loans could be issued to the cultivators on the security of their crop. When the crop was roady, the banks could immediately recover the money in the same way as arrears of land revenue. When the crop is sold, the money for it is paid instantaneously and then the banks would be repaid. The cultivators would certainly pay the bank back.

5153 The cotton forcests are sometimes good but they should be distributed largely in the villages in vernacular. They would be of benefit to the cultivator if full particulars were published in the vernacular The forcests should include particulars about prices, trade movements including figures of stocks, etc ginning and pressing factory owners and the merchants would then make use of them and could make suggestions in regard to their improvement. The ginning and press returns are not submitted regularly, and their submission should be made compulsory I ulure to subunt them ought to be followed by a fine of say half

1 super or rupce
5154 The only damping of cotton or lapas in the Survit district is that which is due to exposure to dew We have a giming factory and press. We do not weigh the lapas at all until two or three hours after it has been dried in the san. When the lapas is not weighed at once, the ryots gramble and say that the gim owners are making fools of them. They come at 6 o'clock or even culter in the morning and knock at our doors to get the factory gites opened for lapas weighment.

5155 Naveuri cotton should be pressed in a pressing factory in Naveur and not outside is no press, I would allow the movement of cotton by 141l, loose or in half pressed or three quarter pressed bales but not otherwise. There is no mixing of lapus in my firm's giming factory. People may mix in the presses. In our own giming factory there is no mixture as we only gin for ourselves. When people bring presses In our own guning factory there is no instance as we only gin for ourselves. Whon people bring in kapas from other districts then the seed becomes mixed. Some guning factories get seed from outside In the Say an district, they get seed from Broach now Say an cotton used to get a good paice, it is now Rs 40 less than Naveart, it was formerly Rs 10 less

5156 (Mr Wadia) In certain villages of the Surat district Government give out specially selected seed and the cotton from that is collected and brought to our factory. We buy the lapas at a premium, gin it and then send it down to Boulday. We get orders from the mills for farm lapas and we supply it. We buy it on commission. We only sell it to mills. We pay a premium of Rs. 12 per lhands for this lapas. We cannot pay more as the area is very small but if the cotton were grown over a very large area, a bigger premium would be paid. The outturn is about 200 to 300 lhands only that is about 500 b des. The cotton that is coming from the form and from the villages is uniform in quality We have been getting uni form quality for the last five years. Our men are there to look after the fum lapas, there is a superm tendent and there is no trouble. In my own factory I eelect every bale, press it and send it with my own mirk to the mill ewners. It is the custom in Surat to select each bale separately. It is then stumped and weighed and the money is paid. Each bile is sampled. If there were a large quantity of this cotton axail able, say, 5,000 or 10,000 bales, the mill owners would pay a higher premium. There is a big demand for it

Step of the superintendent many a time for more of the payment of Government dues. The first date is generally 1st January and the second date is 10th March to 20th March. The lapas comes in April Whether the dates should be fixed later as a question which depends upon the maturing of the cropy of the Government dues were paid later, the cultivators would get the benefit of the market. They have to sell the largest a law step in the construction of the construct laras at a low rate in order to meet the Government demand. It is true that the Government dues are very

small but it must be remembered that I am talking of the poor farmers

5158 There is a big demand for long staple cotton and the mills are anxious to get it Tho only thing, that prevents a bigger price being pad for long staple cotton, is the mixing in the ginnenes In good and honest factories, the kapas is not mixed

5159 I was offered some form lapas from other persons but I did not take it unless there was some guarantee that the cotton had been grown under the supervision of the Agueultural Department

pry a premium when we receive such a guarantee

5160 (Mr Hodglinson) As regards the romarks in my written oxidence regarding saw gins, I may say that after I sent in my exidence I was told by one gin owner that he had used a saw gin but that the results were not satisfactory. Saw gins have not really been tried in Surat. The complaint is that the staple is damaged now and then although the lint comes out very clean. More experiments are required. I have never seen automatic feeders. I have heard that they effect a great saving in labour. If they were into duced into this district, I think they would do very well, and would be popular

5161 (Mr. Roberts.) We purchase the special variety of cotton grown under the supervision of the Agnicultural Department known as 1 Λ . The cultivators bring in the lapas grown from farm seed to our factories on any day they had after we have made contracts with the Agricultural Department Wo make the contracts first with the farm authorities and the officer of the Agricultural Department makes out a bill in the names (Annexue) The premium is not stated in the statement but we pay the ruling rate of the contract (Annexue) The premium is not stated in the statement but we pay the ruling rate of the market plus Rs 12 per *I handi* We buy the gimed cotton after having the *I apas* gimed in our own factory. When the carts come in, we simply weigh the *I apas* and have nothing to do with the cultivators. If the cultivators want an advance, we give it them on the recommendation of the officer of the Agricultural Department I have not been passed to pay Re 12 000 by the plants and the content of the Agricultural Department. have just been asked to pry Rs 12,000 by Mr Blumbhai. Our money is safe and the earts will be coming to u. Wo pay the advance and the accounts are sottled when the cotton is weighted and then we pay the full value of the money. The Agricultural Department supervises the ginning. One fieldman from the Agricultural Department remains in the factory for the season. I do not consider that Rs. 12 per *khandi* is a very low premium in present conditions oven though the cotton may be worth a little more. The inills demand more farm cotton but there is no more farm cotton to be not we would but any any amount.

My personal opinion is that it is worth, at the most, Rs 18 to Rs 20 more than the local Surat cotton. The cotton is very good and is much liked in the mill. If there were more officers of the Agricultural Depart to the cultivators to do so, they would take the seed and grow this cotton. The more farm cotton but there is no more farm cotton to be had. We would buy any amount if we could get it ment and they were to ask the oultivators to do so, they would take the seed and grow this cotton. The cultivators have not to wait long for their money. They are paid within a week or ten days. We gir this cotton right through the whole of the season. A cultivator may bring this cotton in at any time, we give him the rate of the day plus Rs 12 clear premium. I do not know why the cultivation of this cotton is not spreading

Mr A. H A SIMCOX

5162 I am in farour of posting the Bombay prices up-country. I think it would help the cultivator here if the prices of "Good Broach" in Bombay were published. "Good Broach" prices regulate the market here It would not be necessary to convert the Bombay prices to the local standard. Everybody under stand, them and they could calculate for themselves. If a Central Cotton Committee is formed, local committees would be necessary to supply information to it Some permanent organization of that kind is essential

5163 I recommend the heening of factories to ensure the submission of proper returns and the punish

ment of the defaulters v hero necessary I would not lie too rigorous a system of hechsing 5164 (President) We buy on cotton only from men who have a guarantee that the cotton is grown Our dealings are earried out through the Divisional from seed supplied by the Agricultural Department Inspector, who certifies that he has seen the crop, has a fieldman watching it and a weighman who settles up tho account. The scheme is a very good and I think it could be extended on a very large scale. But the more it is extended, the less seeming, that is, some people might do mischief. If a man were paid If a man were pud Rs 30 more per I handi, more people would be tempted to take it up but mills ean't afford to pay the premium At present we are pring Rs 6 per *lhandi* more than for Navsari cotton The difference between Bardoli and Navsari is Rs 6, i.e., we are paying Rs 12 more than for Bardoli cotton. We market all the cotton produced from farm seed as one variety though there are two varieties, one of which has a longer staple than the The quantity is very small and the difference in staple is also small so that it is not worth while keeping them separate We sent some bales to Liverpool three years back and they got a very good price Last year we sent ten bales. I do not know exactly what price they got but I heard that they obtained a very high pilee which would be partly due to high fleight and insurance charges too

ANNEXURL

Copy of contract for purchase of Lapas grown from seed supplied from the Government Farm, Surat, 1916 17-

(Translation)

Form Lapas to be ginned in our own ginning factory at Sama Ginning rate to be Rs 4 per bhar equal to 24 maunds of lapas

If there be ginning association, the rate of ginning will be that of the association

Rent of tare of half pressed bales to be paid by the buyers of cotton

Cart hire from Sania to Surat to be paid by buyers of cotton

Farm cotton to be purchased by us at the rate of Rs 12 more than the Bardon cotton of the date. The purchaser is bound to take the cotton from the Farm Committee at any date in the season whenever they wish to sell

Cotton to be weighed at Surat terms

9 The Committee should insure the lapas through its

CONTRACT O1 1917 18

1 Ginning rate is fixed at Rs 5 4 0 per bhar of 24 mainds of lapas

2 Other terms are the same as those of the last year

Mr A H A SIMCOX, ICS, Collector of Sholanur.

Framined at Bijapur, February 16th, 1918

Written statement

II —COMMERCIAL ASPECT

5165 General -My efforts as a general administrator, and not a specialist in any dopartment, have always been directed principally to secure clean cotton. I have helped in eradicating pests, introducing new varieties and improving old, and in other ways. But mainly I have tried to see that what was grown came to the market clean. Much is been work in detail, a prosecution here and a fine there, enquiry into seemingly unimportant matters, but always, with the same object If I have a theory, it is that Indian cotton will profit less by attention to staple than by attention to dirt. If dirt be defined as matter in the wrong place, it will be seen that I have had to attend to such things as mixing of inferior and superior cottons, unnecessary introduction of seed cotton, cut and whole seed and other things into bales, watering and so forth. The exper tation of "fly" from Sholppur Bombay and Madasi mills to Dharwar to be mixed with kimpla cotton when it was high priced was one matter I reported on in Bombay The export from Khandesh to Gujarat of seed cotton was another. Foul ginning and foul pressing I have often detected and shown up in Khandesh went down in any time from Rs 5,00,000 annual less to Rs 25,000. I am prepared I am propared to be examined on the above matters

Mi A H A Simcox, ICS, called and examined

*160 (President) I was Collector of East Khandesh from 1906 to 1913 It was a newly formed district it had been cut out of the old district of Khandesh and had been very much neglected, the capital of the old district being at Dhuha, a long way off I had to get the district more or less into working order and had to make Jalgaon the centro of the new district A very superficial enquiry was enough to show me that the make Jalgaon the centro of the new district. A very superficial enquiry was enough to show me that the main staple of the district on which all its prosperity must be based was cotton, of which about a million acres are grown in the district. Up till then, I really had not studied cotton very much but I made myself acquainted with the nature of Khandesh cotton as far as I could. I got into touch with the best of the merchants. At that time, the price of Khandesh cotton was very low indeed. So I set myself up to find out why this was the case and the capalism. I came to use that it was due mostly to the extraordinary filthness of the was the case and the conclusion I came to was that it was due mostly to the extraordinary filthiness of the

Bembay 1

Mr A H A SIMCOY

[Continued

cotton as it was put on the market I set my self therefore to see what could be done to improve matters The result was that I made war on the ginning factory owners as they were the people at fault. My view was that even a good man who came in touch with the cotton trade I count foul. The cultivator was served ont at the biggest price possible by the Marwari with the worst possible seed out of imscellaneous heaps in the ginning factory so that he did not got a fair start. He sowed his cotton but he was generally too lazy to weed ginning factory so that he did not got a fair start He sowed his cotton but he was generally too lazy to weed it or clean it himself He looked to the starting districts of the Decean to provide him with lahour for this Having grown the cotton some how, he got it picked by imported labour The cotton in Khandesh was sold exclusively by weight and practically anything that weighed was put into it in quantities that would not be too obviously detected. In fact the cotton was picked as foul as possible. The cultivator was not above watering it on the way to the mail of the small buyers bought the lapas from the cultivators. It was to their interest to get as much cut seed and even whole seed through the gins as possible and that they It is very easy not to smooth the gin rollers Cotton seed has a very uniform range of size and it is to get these people within the pale of the law. The owner of the ginning factor v is very seldom the owner of the cotton. The only offence that could be established would be cheating and the question arose who was cheating whom? It was very difficult to get a case sufficiently good to pass a magistrate, let alone the Sessions Court, for this reason. However, I did a lot by threats. I used to take off some gin rollers and say these very approunded, by the Court and threatened a procession which seldom come to entitions. I had the were impounded by the Court and threatened a prosecution which seldom came to anything powers of a Factory Inspector which I used to the full. In this way, I found out all sorts of tricks which were resorted to oven if the cotton was ginned fairly clean. A man might have a lot of loose cotton seed. lying about and he might roll his docras over it and thereby collect on each docra two or three seers of seed which would look like a pure accident. I once went into a ginnery which had a very good reputation, the pirco of cotton was up that year. I noticed there was a good deal of seed cotton lying about in odd places apart from the usual heaps. So I pushed my hands into the middle of the docras of ginned cotton and pulled Of course the gin owner said that the docras had been lying about open and that it was out a lot of Lapas impossible to help seed cotton getting into them. I had about thirty docras opened. In the middle of each, I found two seers of seed cotton. This was supposed to be a very good ginnery, it was turning out 100 docras a day. That meant a very decent profit to the owner on 200 seers of ungimed cotton per day. These trief is look small but in bulk they are very large. One man I succeeded in getting on the complaint of Messrs, Rallis' agent who was a Enropean. He said that he had bought docras from Mahassawad, twelve miles from Jalgaon Tho owner of the ginning factory in question was the biggest landlord in the Bombay Presidency He is the only man who pays over Rs 10,000 Government assessment. Ho was a wealthy man but owing to his luminous style of living, he was often short of each. Ho had sold several hundred docras of cotton to Messrs. Ralli Brothers and arranged that delivery should be given when Messrs. Rallis' agent was away on tour for ten days so that the consignment could be taken over by a clerk who did not inspect it very carefully Unfortunately for lum, the Agent came back unexpectedly and he found out that their docrass were something like mixed pies. There was a coating all round the entside of fair cotton but the inside was "fly," broken seed and husks. After taking the sworn complaint of the agent, I got the engineer of the Khandesh nulls and the Mamlatdar who was a Magistrate and sent them out the same night to the factory before any warning could have been received by the owner and told them to annex the whole of the gin rollers By doing that, I managed to secure a conviction. If the owner had had the least warning, I should not have done so As a matter of fact, by the time the Mamlatdar and the engineer arrived, they had had time in which to remove some faulty rollers The Engineer, however, found that they were still hot from running The factory owner was given six months for deliberately cheering Messrs Ralh Brothers by solling them what appeared to be cotton but was really something else I also found onses of false pressing I held an elaborate enquiry into one case that was reported by Ralh Brothers In this case, a man had got in his pressing room some small heaps of good cotton. That year there was a great deal of run soiled cotton. It was in the interest of the people for whom he was pressing to get the run soiled cotton through as good cotton. So, every time a bale was pressed, a layer of good cotton was spread at the hottom of the press box and another layer of good cotton at the top. The whole of the intervening space was filled with rain soiled cotton so that seven eighths of the hale consisted of such cotton. The press owner was a Bombay man who knew that bales were usually tested by removing a little of the cotton from the top and the hottom Ho was, however, caught in the act and he had to own The question arose as to whom ho was cheating as ho had consigned the cotton to himself in Bombay Howover, I had an effective watch kept on him in Bombay If so happened that year that a great many ships were going from Bombay to Europe and what I understood was that every now and then there would he a case a ship due to sail on the following day and the owners of the ship would given notice that there was accommodation in the ship for a certain number of bales of cotton. This happened soon afterwards and the man used to get rid of the bales in driblets. I had some of these bales traced to Dunkirk. I got the French police there to mal o enquires but could not secure enough ovidence for a conviction as the cotton had all been opened, and although it had been noticed that there was a lot of inferior rain soiled cotton, it could not be traced to particular biles. However I disposed of that by offering him a clean slate provided he subscribed Rs 10,000 for the new hospital. The whole district however understood that he has been fined he subscribed Rs 10,000 for the new hospital Rs 10,000 by the Collector

5167 Another matter that I took up very scriously was the wholesale burning of cotton in Khandesh Of course, cotton in the form of docras burns very easily indeed. Kapas won't burn, fire just skims over the heap and singes it. Pressed cotton is impossible to burn by any ordinary means but ginned cotton in the form of docras burns very easily. When the news that prices were dropping in Bombay and were likely to continue to drop for some months in Bombay filtered through to Khandesh, fires began at once. The first way I got to know about this was that there was an agent of fire insurance companies in Jalgaon who was a Gujarati and who gathered into his agency most of the hig fire insurance companies. He could divide the losses amongst them as he liked. At that time the place was full of sedition. The Collector of Nasik had not long been shot and the police were on the look out. A man was detected at Kalyan station coming up to Jalgaon with a whole box of pieric acid. He looked henest. He was detected simply been use he was coming to Jalgaon with a ticket only to Kalyan. I told the people that if they wanted to blow up my bur galow, they might give me a chance of getting out of it. A couple of days afterwards, a min came to me accompanied by a police man and asked me to tell him if phosphorns was a suitable chemical for blowing up Collector's or other people's bungalows. I told him it was a highly inflammable substance. He said that a large bottle of phosphorus (which does no harm when I ept in water but, directly it is dried, begins to burn

which he had never ordered had come to him in water by V. P. P. from Treacher and Company and that he had refused the pareel as he had never ordered it. The man had a match factory. Treacher and Company asked what he meant by refusing a parcel he had ordered. So he wrote and got the original post eard which he brought to me and it was their found that the mini who had ordered it was the insurance agent. I asked how it was proposed to use it and was told that it was a common triel with fall its and larragis (wandering beggars) to get a little plie phorus, to roll it in wet cotton and to put it in their cheek. The fall it had goes to a village and says that any man who gives an offering will get a blessing on his house and that the houses of those who do not give will be burnt. They spit the cotton containing the plue phorus into the heaps of cowding eales in the corner of the houses from which they have been the phop phorus into the heaps of God. Shortly afterwards the house eatches fire. On the strength of this I ruded the hear of the insurance agent. He was convicted of being concerned in at leat three micritional fires. That is how I first tool up the matter, but I got no assistance at all from any of the insurance compane. I very fire I found I reported to the Fire Insurance Association in Bombas. One of the obvious conditions of i sunger policy to a ginning factory is that no temporary hots or workmens cottages are allowed monget the heaps of cotton. There was a very large fire in Immer, it was known to have I can caused intentionally. The insurance company of coolies hints in the middle of the cotton and on that account they could have refined to pay a single auma. What can you do with such people?

5168 (Mr Roberts) Suppose I own lapse in a pinning factory and I insure it for Ps 50,000. I manage to burn my cotton. I claim the full Rs 50,000 although there was culy Ps 5000 worth of cotton. The claim has to be settled by a man cent down by the manage company in Bombay and the local agent, is tho man who bought the phosphorus. I claim Ps 50000. The insurance company as at that they are going to give only Rs 30,000. They are pretetly glad if they get off with Ps 20,000. It is delighted to get Ps 20,000 though I hagele about it. I how perfectly well I have only be t. R: 5,000. The local agent smooths down the insurance company a representative. In gets a couple of thou and out of that which pass for the phosphorus. That was roughly how it was done. I threatened the e-people and reduced the bres from P: 5 lab ha a year to about 18 25,000 while I was there. The insurance companies are very slack. Of course they cannot get good agents. What do you think of a circle like this? A like tile a place in the middle of the night say between 12 and 1 s. M. A committee (parch) of respectable people is called in the next morning to decide on the probable cimic of the like. If they report the claim to be genuine it is a usily allowed and the amount of damage is settled by survey and so on. In one case, it was sole muly reported by those people that the like was caused by a spull going up the climary of the giming factory and falling into a heap of cotton. A transition for in the claimney would be nece says for that. It vias of course impossible, as the factory had been closed after 7 s. M. I did not hear of this case till a long time after and then I asked the engineer low there came to be sparl slying about in the middle of the night. He said that that night the boilers were being cleaned out and that they had been cold for days.

so ne at Anaher I went there one morning and found one children which made me rather suspicious. I found the knives not projectly sharpened and not bearing on the reflex and pressing any amount of ent reed. So I annexed a few rollers and threatened the owner. I then went into the compound which I found javed with seed. I was told that the each had been left by a Marwari and that they could not help it. I found a ligap of docras at some distance from the enjoine in which there was a lot of oils waste which is always as a to eause hire his itself in the lot weather. I had statements taken down in detail in regard to these thinks which frightened the owners. I then went to my tent and the chilmans went to his tent. The factory owner went to the latter and offered him Rs. 200 in currency notes to pass on to me. The chilmans was careful to have a main within hearing. He said, "I hear something rattling in your poel of." The factory owner produced twenty sovereigns. That was Rs. 500 in all. The chilmans cent the money to the Tree sury under the Collector's seal and then accused the man of bribing a public servant. The Magistrate convicted him on several charges under the Tactories. Let and sent him to juil for bribing a public servant. On the 3rd of April I meet the barrister who had appeared on his behalf before the Session's Court. He said he had not been able to stay to hear the judgment as he had to eatch his train but that he thought the man had a chance of getting off. I replied that even if he did get off he would require a good big fire to recomp limited. He was acquitted and drove back to Amaliner on the third April and on April 5th there was a ling hire in his compound in which damage to the extent of Rs. 75,000 was done. Of course I was on to that at once, it was too good to be true. Volkarts were the nigents in this case. They got an anonymous letter saying that the fire was a fraudulent one and that they should pray nothing. They proposed to pay. They did pay. About fifteen months afterwards, a man came

5170 (Mr Wadia) The Sessions Judge considered that the insurance company ought to have the fine which was several thousand rupees as it had lost so much by the fire—I appealed my celf on that—I pointed out that the company had refused to help mo, but had deliberately paid up in spite of my warning—The High Court accepted this view and the fine went to Government——

5171 (President) There is no danger of fires now as the price of cotton is so high

5172 I have noticed that several witnesses have told you that they would like some regulation of ginning factories. I think that power should be given to Collectors and Assistant Collectors, apart from the professional Factory Inspectors. The Factory Act is no good to prevent abuses of this kind. The Lactory Act only prevents children working and puts a stop to duity latrines and things of that kind. But one would like to be able to blacklist a man for deliberate foul ginning. I have stopped it in Kurduvadi and Barsi, by writing to buyers and warning them that the cotton they were purchasing was foul ginned, but one wants some power to eatch the ginners out. The damage they do goes all over the world. I do not think that the Bombay market has time enough to control matters by more discrimination in the matter of buying.

5173 One thing I tried to stop was the deliberate sending of Khandesh lapas to Gujarat It went from Amalner, which is the largest cotton centre north of Dlinha I stopped it by frightening the station master not refusing any waggons for cotton of this description but that was a rudimentary sort of remedy

Mr A. H A SIMCOA

[Continued

5171 (Mr Wadia) A general prehibition of that sort is not so necessary now as I then thought it would be Gujarat cotton is a very late in ripening whilst Khandesh cotton is very early. In Ahmadabad, last year, I noticed that Khandesh cotton was growing there, no doubt, as the result of the precedings I had seen in Khandesh. It bolled, ripened and fell to the ground before the Gijaratection was ready so that it was destroving itself to a large extent. The Khandesh cotton had dropped by December, and was all over whereas nobody went to pick the cetten in the fields until March. By that time, the birds would have carried the Khandesh cetton away.

5175 Jainner cotton goes to Malkapur but I don't think the export of Jamner cetton to Malkapur does much harm If there were total prohibition of the transport of cotten by rail except in fully pressed bales from one station to another by rail, it might help matters but it would be easy to unable and rebale. I think that the only remedy is plenty of power and absolute waterfulness. There must be well paid men and good men to see that such things do not go on Any rules, however good they might be, would be got round Pro hibition of transport by rail might mean that cotton would be taken by earts to Bembay, which is only 200 miles distant There are presses in Bombay When I was the Collector of Bombay, I reported at least two peculiar occurrences to the Chamber of Commerce there through my Factory Inspectors. One Inspector reported that he had observed the expertation of seed cotton from Khandesh to Ahmadabad in large quanti One Inspector I reported this to the Chamber of Commerce as well as to the Collectors of Ahmadabad and Khandesh, but nothing was done Another thing that I brought to notice was that when Lumpla was commanding a good price, " fix " from mills in Bombay, Sholapur and Madras was sent to Dharwar and other places in the Southern Mahratta Country to be sprinkled among fresh cotton from the fields I speke to several leading men in the cetten trade about it—One of them and that when Iumpla was fetching a good pines, that was always done, another said that it could not be prevented, as it was a trade custem—The third said that it men in the certon trade about it. One of them said that when tumpa was receiving a good piece, that was always done, another said that it could not be prevented, as it was a trade custom. The third said that it was the sort of thing to be expected in a year of high prices.

I jotted their answers down and put them in the form of a note which I sent to the Chamber of Commerce. The Chamber of Commerce agreed with me that this practice was going on but did nothing to stop it. I maintain that the Chamber of Commerce ought to have got these people put in just left that is not cheating what is? The difficulty about these cases is to prove who is interested who is causing wrongful loss to whom and who is making wrongful gain. The gin owner himself says that he is not liable as he did his best to keep everything clean, but that the sahular or Murwari must have given Rs 5 to his fitter to set the gin rollers like that

5176 I would recommend the licensing of ginneries I have seen a great many suggestions in the evidence before the Committee and I am strongly in favour of doing something to stop all these ovils. Ginning factories ought to be as strictly controlled as liquer shops as they are dealing with far mere money. What the exact form of control should be it is not for me to say. The gin owner and his servants should be held responsible whoever else is made hable. It should be a penal act to allow false ginning to go on. The gin owner

13 not hable at present

5177 Pools exist almost everywhere there is more than one ginning factory. I consider them an abomination. Whether it is possible to rule them out by law I do not knew. A most glaring instance is at Barsi, where there are more than a dozen ginning factories but only three or four are welking. There is not enough cetton for the rest. So it is not profitable to work every factory, working expenses are deducted and the profits are divided between the people who work and the people who do not work. There was one factory close to the dak bungalow in Jalgaon. The factory chimney was broken in the middle and nothing but juar grew in the compound. The factory could never work, the inachinery was too rusty. It never attempted towork but towards. Murch at the end of the Khandesh season, the owner used to got about Rs 1,000 to Rs 5,000 worth of filthy cotton and set fire to it and thus got a few thousand rupees and that was how he carried on. He did that every year until I stopped him. His factory was broken up and I do not know whether he has set up again. He was afraid to come near it when I was Collector. I mentioned the case of the big landlord whose conviction. I secured for foul ginning. He was very angry with Messrs Moolji Jaithi and Company, the owners of the Khandesh nulls, because it was on their Chief Engineer's evidence that he was centified. While he was in jail, his money accumulated and on coming out, he brought up a ginning factory beside the Khandesh Mills Company's premises which had fallen vicant on the bronkrupter of its owner. The result was that all Messrs Moolji Jaithia's cotton was set on fire immediately after he had left goal and established humself in this factory.

5178 (Mr Roberts) Of course, there must be a good deal of harm done to Broach cetton by getting the Khandesh cotton mixed with it. What I object to is the transport of seed cotton. That means that the sewing of the seed of Khandesh cotton in Gujarat cannot be stopped. But the reputation of the cetton is so bad, that it seems hardly worth while to build it up again. I have been teld by merchants, not as an official, but as a private individual, that they do not care so much about staple. What they most want is clean cotton. They say that if they can only get clean cotton, they will look after the staple

5179 (Mr Hodgkinson) I used to test the weights and scales in Khandesh. I standardised all weights in that district. I would not allow increhants to use any except public east iron weights made into seers and mainds. I found that here shoes and such things were extensively used. I got the merchants of the district to give that existen up and we agreed that central standard weights of a certain pattern only should be used. Their action was supposed to be voluntary. Whether such weights are always used, I cannot say. I am strongly of opinion that weights should be standardised. A beginning should be made with Bombry City and not in out of the way districts like Khandesh. I should say that the weighing of cotten is pretty fair in the Bombry Presidency. It has not been brought to my notice that there has been nucle cerruption going on in that line. I would have heard of it if there had been any. I would include as a condition of a heense that all weights should be standardised. I think there is a little dastur or unlawful handling of money which is not exactly, swindling. A full cart is passed over the weighing machine. The question is, how much is to be allowed for the tare. The cart is not always taken back and weighed separately.

5180 People are not so innecent as one might thind. I asked a man who had a factory thirty miles from a raily ay where there was never any fire, how it was that he was so lucky as never to have a fire when every body else did. He said that the insurance agent did not come so far as his factory and therefore there were no fires.

5181 I have not been in Sholapur long but I tried to start a league against damp cotten in East Khandesh. I did not get very far. There are always one or two people who never damp at all. I think it pays them. I cannot say whether there has been much damping here in the past as I really left all my experience of cotten behind in Khandesh in 1913. Damping used to go on very freely there

Mr J 5 Aspain

5182 (Mr Roberts) In Khandesh we were supposed to use the standard Indian maind of 82½ pounds. As a matter of fact in every beginn in the district it was the custom to add a few pounds to the palla of two mainds. The palla ought to be roughly 160 pounds but it was the custom in one began to make it 170 pounds and in an other 172 and so on. I should say decidedly that this tends to make it difficult for the local man to understand whether he is getting a bur place or not but the difficulties along to other are nothing compared to the difficulties about grain and the cultivators were as sharp as a needle about grain. In Khandesh, the measure for grain was absolutely different from that used in Ilyderabad to the south in Nagar and Aasik to the west, Kimar and Berai on the elect and Indore on the north and vet grain was constantly going from one to the other. The cultivators linew how many seems of the Aizam's incisure ought to go to their sikla, and to how many seems of the khandesh measure it worked out. They worked it out to a few tolas. I would not be against standardisation.

5183 Tho insurance companies are the indirect cause of the fires. The Bombay people are only agents. It is not they who have to pay but the London Laverpool, Machestrara Clasgow firms. It is, therefore, of no consequence to them. There is not a single firm of principals in Bombay. I think the best remedy would be to get a Bombay Insurance Company to do business on the spot. But such a company would find it difficult to compete against the big I urope in firms. A gentlemma I interviewed in London said that though his company had lost in India they had out their losses because they had done very well in the Continent and in Austraha. Their total profit worked out to a very large sum and so they did not mind. It did not pay them to refuse Indian business altogether. This year there are no tires and they are getting their premiums. They did make a fass after the Bombay fires but then the war came and absorbed every body's atten

tion I nover got any help and whatever I did I did my elf

5184 I think clean cotton can best be obtuined by more and more penal clauses and by constant watching I cannot myself see may reason why the I actory Inspector or Collector of the district or a Magistrate going into a factory and finding deliberate foul ginning going on should not have the power to by a complaint of a criminal offence against the gin owner.

Mr J S ASPDEN, Mill Manager, Hubh Mills, Hubh

LYAMINED AT HUMIT TERPUARA 20TH, 1918

Britten statement

II -Converge Asiet

5185 (30) Local trade customs—With regard to local trith customs as to the marketing of the cotton crop I can only speak with respect to the actual buying of cotton either in the market or by forward contract. I orward contracts are made with reputable increhants on ordinary contract forms stipulating the district or stations from which the cotton must come and conditions of delivery, percentage guarantee of loss, or, more often than the litter a clause stipulating that the lapse must be passed by the buyer or his representative and gained and cleaned under his supervision.

(2) With regard to buying in the Hubbi market the laps is bought in by the ryots and handed over to the dalals for sale, who in some eases have indvanced money against the crop for Government dues, seed, oto, etc, and the custom of celling is rather curious. Buyers simple the market in the earlier part of the day and resorve lots to be taken up it what is called the opening price of the day, which means that, at whatever piece the first dalal who necepts an offer for his lot closes, all other buyers who have reserved lots must pay the same is per agreement. This is in absurd custom and ought to have been broken by the buyers long ago, but there is no combination amounts the buyers and so the dalals have their own way in the matter.

long ago, but there is no combination amongst the buyers, and so the dala's have their own way in the matter 5186 (31) Standardization of commercial names—There is a great variety of names of cotton in this district which, except to one conversant with the district, convey no meaning. Too much is implied by the

use of station names or districts from which the Japas or cotton comes

(2) Buyers, and sellers too, generally attach too much importance to the name instead of tho actual quality of the material. It would be much better if, in each important cotton centre, a committee or Govern ment official were appointed to collect samples from different districts and of different varieties and grade thom on the basis of length of styple, colour, hardness and cle inlines. These standard samples should be set up as the bases of sides, differences from them being allowed for either in reduction or augmentation of price. In this way, the temptation to mix cotton would be lessened as, if the farmers realised that by keeping their good stapled cotton separate they would be assured of getting a better price, they might be induced to give up the present almost universal practice of mixing different staples. It is not so much the mixing of dirty and clean cotton together as the mixing of long and short stapled cottons, which makes the mixing of dirty seems to be a difficult task to convince merchants and even some buyers, that the same machinery will not spin different lengths of staple it one and the same time

5187 (32) Buying agencies—I have no opinion to offer on buying agencies—I do, however, offer the opinion that cotton buyers, whether for agencies or milk should be men of some practical experience in the working of cotton as they would then set themselves more strongly against some of the ruling practices than

is, I am afraid, at present the case

III —Statisticai

5188 (35) Publication of Liverpool and Bombay prices —With regard to the daily publication of Liverpool and Bombay prices in up country markets I do not think it would be of much benefit as most of the merchants get the prices now, and I think it would prove more a ground for disputes than benefit

IV -- Manulacturi

(a) Ginning and pressing

5189 (36) Type and mark of gins and presses —We have 29 double roller gins in our ginning factory and two presses (half and finisher press) turning out a bale 50 makes × 18 makes × 23 makes weighing 392 lbs 5190, (38) Saw gias versus roller fins —As regards the relative merits of saw gins and double roller

Mr J S Aspden

[Continued

gins, it is generally admitted on all hands that saw gins damage the staple more than double rollers only thing which recommends the saw gin to a ginner or some merchants is that, with the longer stapled varieties of cotton, the outturn per gin is more than with the double roller, but if the real facts are gone into, it will be found that, from a user's point of view, the extra cost of ginning in roller gins is more than compen sated for in quality

(b) Spining and weaving

5191 (43) Counts spun and market for yarn or eloth —In our mills, we have 26,512 spindles and 500 looms We spin in our mills counts ranging from 8s to 44s mostly for our own consimption in our weaving shed Our markets for yarn are mostly the local market, Bellary and Bangalore We sell our cloth in these markets also and in Bombay, Madras, Belganm, ete 5192 (45) Effect on cotton market of replacement of short staple cotton by long staple—

With respect to the replacing any large quantity of short stapled cotton with long stapled cotton, it appears to me that this would not be altogether advantageous, but what is a crying necessity is the growing of a fairly large quantity of long stapled cotton in addition to the short varieties and the improvement of the latter

(2) From all evidences, there will be a demand for short stapled cotton in India for a very long time to come as the cheap goods required for many purposes could not be made out of more expensive cottons, but there is also every appearance of a larger demand for finer goods made in the country and every encourage ment should be given to farmers to produce and keep up to a standard cotton that will spin the finer counts which are required for these finer cloths which India is having to produce for herself to day and to make it possible to produce till finer fabrics, which appears to me to be the hnes by which the Indian cotton mills must advance, if they are to be kept up on profitable basis

Mr J S ASPDEN called and examined

5193 (President) The local system of buying is of a very pecuhar nature The opening price is hased on the first deal and that has some reference to the Bombay quotation of the day It has only a very slight Nobody buys or sells until towards evening and there is no It is made an instrument of bid practices. The sellers are reference to that in a very distant way business done until somebody strikes a price. It is made an instrument of bid practices quite right to hold their lapas back as long as they can but it is not done with that object

5194 We buy our cotton mostly locally Some of it is bought in this market through the cotton brokers We buy lapas and gin it as far as we can Mixing is very bad unless one buys ones own lapas, and even then one gets mixed lapas. We get "fly" and dust in our purchases. I do not think anyone escapes that Too much importance is paid to the name of the place from which cotton comes rather than to the quality of the cotton. It appears to the cultivator that cotton will fetch a better price if it comes from a certain place, and so the cotton is carried backward and forward to be mixed with the cotton which fetches have a man. The Bombay Cotton Trade Association carries on histogeness. The Bombay Cotton Trade Association carries on business on samples and my idea is that cextended to the main cotton districts. The Hubbi market is big enough to adopt the princi system should be extended to the main cotton districts ples of the Bombay Cotton Trade Association, i.c., to sell cotton on type samples and to bave arbitration on the basis of sealed samples. This would practically mean the localisation of the Bombay Chamber of Commerce. This system would ultimately have a good effect on the general trade.

5195 I have stated in my written evidence (paragraph 5187) that people who buy cotton ought to have

some training in the practical part of the subject they are dealing with In Lancashire, a mill manager must buy his own cotton I would like to see that system adopted out here. As far as I can make out, buying is often entrusted to inexperienced people. In buying cotton, they, it appears to me, searcely know for what particular purpose they are buying it. I buy my own cotton but that is not the general system.

5196 I have stated in my written evidence (paragraph 5192) that there should not be any reduction of short staple, for which, of course, there is a special demand but that cultivation of long stapled varieties should he extended wherever possible. It would not be possible to work entirely on long staple hecause short staple is required or the coarser counts. The policy should be to encourage long staple cotton in the tracts in

is required or the coarser counts. The policy should be to encourage long and a which it grows. Wo are gradually going into finer counts now a days 5197 (Mr Wadia) Every body knows that "fly" is brought here from other parts of the country and is taken to the different ginning factories. We refuse to sell any "fly" from our mills locally. I use all that taken to the different ginning that I cannot use I send to Bombay. As far as we can, we sell it for shipment. We have accumulated large stocks in consequence of the want of freight owing to the war. We is do not send any of it away in docras. No one gets "fly" locally here—at least not from us We bale it here, we any waste except a few maunds now and again for cleaning purposes but nothing that can be used for mixing Wesell nothing in the way of cotton waste, it is only yarn waste. It would help materially if the Committee We sell nothing in the way of cotton waste, it is only yarn waste. It would help materially if the Committee were to recommend that no cotton either in the form of kapas or loose docras should be transported by rail from one place to another except to a port or to a consumer hut there might be difficulties in carrying it out As far as this place is concerned, if it could be carried out, it would practically stop mixing as there is no other means of getting anything to mix. I think it is a very good suggestion that the transport of cotton or cotton "fly" by rail either in the form of kapas, docras or fully pressed bales should be prohibited except to a port or to a bona fide consumer who, in the case of cotton "fly" should bave a waste plant

5198 The next step will be to get pure cotton and to prevent the ginneries from mixing short and long staple together. More care must be taken about the mixing of seed. One thing that makes mixing worse

is that lapas comes in in a mixed condition and then the seed gets mixed and as a result you get a mixed crop I have not thought that there should be licenses, but I think that there should be some sort of supervision It would be a rather difficult job for an inspector to inspect all the ginneries round about here. If heenses are granted, it might be on condition that there should be no malpractices otherwise the factor, would be Things are getting worse all the time and perhaps licensing is the only remedy one can see at present It is the case that the Agricultural Department is giving out seed to enable the cultivators to grow pure cotton on a large scale, and that if the ginners are allowed to mix, the whole of the Department's activities will be nullified It is not exactly the ginner who makes the admixture, it is the merchant who sends the cotton to be ginned and big it mixed, who is responsible The ginner limited is not the mixer as a rule. He only to be ginned and best mixed, who is responsible. The ginner limited is not the mixer as a rule. He provides facilities, the mixing is done with his knowledge and his connivance. We supervise the gof all stuff that we get ginned outside our own factory. We send our own men to look after the ginning. We supervise the ginning cotton is never out of their sight from the time the lapas is taken in until the lint is brought back to the So we can not speak with any authority in regard to the question of damping I have never seen

Mr Dadabhol Darabji Pudumji

A slight damping of cotton when pressing it, to the extent of my one per cent is not any done myself It is only when it is carried to an excess that the evil commences altogether an ovil from the gins in a heated condition and if it is pressed in the same dry state and is not damped, there is a

risk of damaging the fibre

5199 In my mills, all the gins are double roller gins. I have no experience of six gins. Both in single and double roller gins, if the knives are not properly set, a lot of seed can pass through. It is quite true that merchants purposely as I the ginners to set the lines so as to pass seed through. I do not see how this can be stopped. Honesty is the only cure. It would be a hard condition to make that the house of a ginning factory should be withdrawn if crushed seed were found in hint is sometimes it is not done intentionally but is simply due to want of supervision. If it were consistently done, and if it were proved that it was being consistently done, then it would be just as had as the other, but it would be hard to prove whether it was being done wilfully or accidentally. As a rule, only some gins would be found out of order. If all one man's gins were out of order, the passing of crushed seed would obviously be intentioned, but if only two were out of order, it might be claimed as accidental. I should be very glad if people were compalled to keep their gins to a larger extent in good order. but I am afraid it is hardly practicable. I I now that when I go round mour own factory, I can always find one or two gins out of order owing to bid rollers, had setting of the knives or blunt knives

5200 As regards the statement that owing to the fact that "fly " is mixed with lapas before ginning and the outturn per gin per day is reduced on that account the ginners have put up their prices for ginning very considerably, there is some truth in the first part of the statement that the outturn is reduced to a great extent but that ought not to be any reven for putting up the guming charges to present prices. Three years ago the charge for guming lapas was Rs 580 or Rs. 6 per nag or Rs. 14 per Handi of hit. Last year it was Rs. 780. This year it is Rs. 9 which is equal to Rs. 21 per thandi for hit. I am in the guming combination and I fought against the merease. The expenses for stores and materials have gone up both for gins and

5201 I think that the practice in this tract is to buy a field of cotton just before the crop is ready or to buy and sell the kapas in the market here on commission. If the crop is sold as a standing crop, the ginning and pressing charges make no difference. But if it is not sold as a standing crop, the higher the ginning and pressing charges, the less the cultivator gets because the merchant deducts the extra cost of ginning and pressing ing The capital invested in a ginning or pressing factory is not so big that a return of ten or twelve per cent would give the owner a fair meome. Unless he males fifty per cent, he will not be able to get a decent I am not in favour of controlling ginning or pressing charges Things are best left income from his factory

to work out themselve. The starting of new factories is the best way of breading down pools

5202 (Mr Holgkinson) I am a Lancashre man. I have been in the cotton trade for thirty years. I come from Chiheroc. I was at the Whipp Brothers Mill, now John Mercer and Company Ltd. They used American cotton there and spin from 6s to 60s counts. They had very slight experience of Indian cotton Some Tinnevelly cotton was used at one time but only for mixing for a special case. In Lancashire they make far more trouble about mixed staple and dirty cotton than they do here. Regularit of staple is most important. In the Lineashiro nulls, all the cotton is bought for each individual purpose with as regular a staple as possible. Two kinds of staple won't do, but we have to put up with it here. In my null, the coul of mixture of cottons is more accentiated in 11st than in 8s. For 11st I use a mixture of Combodia, Anigeri and I umpta cottons Anigeri cotton is a mixture of Lumptas and American It is spun on a 61 inch bobbin for 115 twist. The cotton that we use here for spinning 445 they would not use in Lancashire at all. There is no cotton I have seen in India that I should care about for Lancashire. The neurost is saw ginned Dhaiwar American I have tried Cambodia bought in the market here, but I could not any from where it came It does not matter where cotton-comes_from provided it is of good staple and of good strength I do not how what are the future prospects of long staple cotton in India but we are feeling that unless we get finer cotton, we cannot get on We ought to be able to follow Lancashire and to spin the counts that Lancashire is leaving, 11s is not a fine count in Lancashire, but it is a fine count for India The tendency in Lancashire is to spin finer counts. We are now spining more of the higher counts but in normal times there is not the same demand for their as there is just at present

5203. Cotton just after it is ginned is hot, it gets back its normal moisture if it is allowed time to do so but it is often taken off to the press house at once. We do not use hunddhers in our mixing room but I

think it might be better if we did

Mr DADABHOY DORABJI PUDUMJI, Gin and Press-owner and Merchant, Gadag

EXAMINED AT GADAG, FIBRUARY 22ND, 1918

I —AGRICULTURAL EXPERIENCE

Written statement

(b) " Deshi " long staple cotton

5204 (10) Experience -I have been stationed at Gadag for several years

5205 (11) Varieties—The variety grown is termed Lumpta,
5206 (14) Retations and manures—The rotations followed are juar and cotton, wheat and cotton, and cotton after cotton Manuro used is generally farm manuro

5207 (16) Suitability of existing varieties -In certain tracts, having good black soil, I think

Cambodia seed would give better cotton and better yield too
5208 (18) Uses of seed and seed selection—The seed is partly sold to merchants, partly reserved for feeding the cattle, and partly for sowing purposes To my knowledge, no seed selection is practised on a large scale It is practised in hig towns to a small extent where there are seed societies, who sell such seed The seed selected is not generally hand guined

5209 Suggestions for improvements in cultivation of cotton — The present system of cultivating cotton is rather defective The cultivators do not take particular case that the tilling of their land is done properly

[Continued

and at the right time. They merely service the surface of the soil just before the seed is sown is always deficient in rainfall, and if the land is not properly prepared in order to conserve the moisture, the erop is generally deficient. What I would suggest is to proprie the land by ploughing deep before the monsoons set in so that the soil may be brought in a fit condition to absorb and retain moisture. The seed selection is set in, so that the soil may be brought in a fit condition to absorb and retain moisture. The seed selection is not carried on as it should be. Government or the seed societies should have depôts in almost all the villages and should encourage the ryots to buy seed from such recognised depots only by offering it at rates lower than those prevailing in the market. The firstlikers in use are very inadequate and not properly preserved. They lie exposed to sun and rain for months, thus losing much of the manural properties. The use, therefore, of the chemical manures if tried and found suitable for the soil should be encouraged. The quality of cotton has deteriorated for want of proper care on the part of the ryots as mentioned above. The system of picking cotton is also defective. The cooles are paid according to the quantity of cotton picked and consequently it tempts them to pick the cotton indiscriminately with shells. The latter, when and consequently it tempts them to pick the cotton indiscriminately with shells. The latter, when they go with the cotton in the double coller gins, accumulate and greatly lower the outturn of the gins, and therefore special coolies have to be comployed to remove the shells every five or ten minutes

(2) Some roots are in the habit of growing cotton from mixed seeds, c g, deshi long staple and Dharwar American. This in my opinion, is wrong. This makes it very difficult to gin the cotton as the gins, if set for deshi long staple, cannot at the same time properly treat. Dharwar American, and consequently the production of the gin is much lowered. Moreover, a mixture of such dissimilar qualities of cotton

mentioned above does not produce yarn of good quality

5210 Presention of fraudulent practices—I would suggest that the Government should form a committee of artification in eachtabula consisting of several influential merchants and a Government official at the head—either the Divisional Officer or the Mamlatdar of the district. The committee should be invested with power to punish all irregularities on the part of the cultivators or dealers with a view to discourage the present practice of deliberately allowing shells seeds, etc., to be invested with cotton, or otherwise allowing the quality of a good staple cotton to be lowered by being mixed with waste or inferior stuff. This arrangement would at the same time afford facilities to the purchasers to lodge complaints against such cultivators and dealers as are detected of such practices as mentioned above, or to appeal to the committee for arbitration in eases of disputes and fraudulent practices

5211 Spread of improved implements—The cultivators may be encouraged to use iron ploughs by supplying them on easy payments. The present seed drills are defective and enide. They are fed by hand and consequently the feed is irregular. It so happens that certain parts of the field get no seeds at all, whereas

other parts are much too closely sown Drills with automatic feed would prove very useful

(c) Protic cotton

5212 (21) Varieties - The exotic varieties grown are Cumbodia and Dhurwai American

5213 (28) Importation of seed -It is desirable to experiment on imported seed to ascertain what particular strain is best smited for the district before the seeds are recommended to the ryots. It is better to try and improve on the indigenous varieties as these are much hardier plants. As a rule, the exotic to try and improve on the indigenous varieties as these are much hardier plants varieties do not thrive well on our parts as they are found to be very delicate plants and susceptible to slight changes in the chimatic conditions. It is very desirable that experiments should be made in Government farms on such exotic varieties to ascertain the effects of irrigation. If irrigation is found to be successful, the Government should undertake to sink artesian wells on behalf of the cultivators in order to encourage them to grow the exotic varieties

II -COMMERCIAL ASPECT

5214 (30) Local trade customs—The handling of cotton crop is generally done by the local brokers advance money to the ryots charging interests at nine to twelve per cent per annum. The brokers reserve who advance money to the ryots charging interests at nine to twelve per cent per annum the right to sell the cotton taking brokerage at eight annas per nag of 336 lbs , both from the purchaser as well

5215 (31) Standardization of commercial names — All the different qualities of cotton grown in this district are generally styled as I umpta and Dharwar Saw gin, and are sold in Bombay under those names

Ido not think there is any necessity for making any alterations in it

5216 Standardization of weights—In our district, the unit of weight on which quotations are based is
a nag of 336 lbs. This unit is different in each of the cotton growing districts throughout India. Besides
the tare and other allowances are different in different districts. This causes great annoyance to the purchaser, as he cannot compare the prices of co'ton of different districts without working out the prices to a common It would be advisable therefore to standardise the unit of weight for quoting prices, throughout the cotton growing districts of India, as for instance, the Bombay I handi of 784 lbs

III -STATISTICAL

5217 (34) Improvement of statistical information -The cotton press returns are of little value

unless each and every one of the presses is made to send the returns systematically
5218 (35) Publication of Liverpool and Bombay prices—The duly publication of the Liverpool and
Bombay cotton prices would prove very useful, provided they are officially published at the up country markets on the same day as they are received in Boinbay

IV -- Manufacture

(a) Ginning and pressing

5219 (36) Type and number of gms and presses --We use Platt's double roller gms and American saw gms

5220 (37) Size of bale —The bale weighs 400 lbs and measures 48 ms ×17 ms ×17 ms

(38) Saw gins versus roller gins -The saw gins are economical as they give a comparatively large A gin of sixty saws can produce about three to four thousand lbs of ginned cotton (lint) in twelve onttuin If these gins aronot overspeeded, they are very satisfactory for ginning Dharwar American cotton

[Continued

Bombay]

The capacity of double roller gims is low, but as they give a continous web of ginned cotton, the cotton The roller gins eannot gin efficiently the Dharwai American cotton acquires a better feel and touch

5222 (39) Effect of saw gins on Indian cotton -Saw gins might prove successful with Indian cottons if the prescribed speed is not exceeded and if the saws are thinner and are set closer than in the gins as imported 5223 (40) Factory labour -There is no difficulty in obtaining factory labour, but the wages are higher during the season

5224 (41) Condition of cetton -Raw cotton is invariably received mixed with shells, sand, etc the undesirable mixture of deshi and Dharwar American is often received at the factory The remedy is to

depute a committee of merchants as ahead, suggested in paragraph 5210 above
5225 (42) Effect on machinery of replacement of short staple cotton by long staple—No alterations in machinery are necessary, excepting that the speed of the machinery should be lowered for long staple cotton

(b) Spinning and wearing

5226 (43) Counts spun and market for yarn or cloth -The counts spun are from 4s to 30s and are

consumed locally

5227 (44) Condition of cotton - Aumpia cotton is notorious for its dirt The cotton is very much adulterted with seed, etc I have seen some lots losing from 35 to 40 per cent in the blow room by hand should be very much discouraged as now there are ginning factories in almost all the villages to do the work If, for any reason, hand ginning is to be kept up, the cooles should be paid on the quantity of the seed turned out and not on the quantity of cotton guined in order to remove the temptation of allowing the seed to go with the cotton

5228 (45) Effect on cotton market of replacement of short staple cotton by long staple—If long staple eotton is grown successfully in sufficient quantities, I think the outlook for India will be changed. The cultivators will get a better return for their labours. Several new mills for spinning finer counts will be established and India will become quite independent of the foreign goods which are now imported every

year in large quantities

Mr Dadabhor Dorabji Pudumji called and examined

5229 (President) I think there are various ways by which agriculture could be considerably improved, as proper cultivation, manuring and seed selection. The activities of the Agricultural Department in such as proper cultivation, manuring and seed selection these directions require to be extended very considerably. For the improvement of seed I would recommend that there should be seed societies in almost every village which could distribute selected For the improvement of seed I would seed to the ryots to be grown at the outset under the supervision of the Agricultural Department they could be established on a co operative basis, so much the better but it would be rather a difficult thing for all the people in the villages to co operate. It could easily be done in towns like Gadag. Assuming these societies were started on a co operative lasis, there should be a committee which would appoint a supervisor to go round and examine the work done by them

5230 I do not think much admixture takes place in the ginneries in Gadag But it takes place in the

presses I do not think much admixture takes place in the ginneries in Gadag But it takes place in the presses. I do not think that much admixture with seed takes places in the ginneries. The different varieties are mostly ginned separately. I both gin and press cotton myself. We practically deal in cotton from the dalal up to the Bombay Mills. I gin very little cotton for my own use. I gin mostly for outsiders 'presses are picking cotton is defective. The coobes are prid recording to the quantity of cotton picked and consequently it tempts them to pick the cotton indiscriminably with the shells of the bolls and other foreign substances. As a matter of fact, some of the cultivators grow the indigenous variety. I tempta and Dharwar American teresther. American together

Cotton is not deliberately damped nor is dirt deliberately inixed with it, though seed sometimes is 5233 I bave had some experience of saw gins as I am the igent of one of the firms in America for their

5233 I bave had some experience of saw gins as I am the agent of one of the firms in America for their sale. I think they are quite good if they are worked properly at the specified speed and the saws are properly set. I do not think they damage the staple. It is all a matter of correct adjustment. In America, the gin owners use nothing clse. The supervision and the mechanical handling of saw gins are simpler than that of roller gins. Everything is automatic. They require very little setting but the saws have to be sharpened every now and then. An ordinary mistrice (foreman) is capable of doing the setting.

5234 (Mr. Wadia.) People bring "fly" and other things from Bombay and Madras for mixing with cotton. That spoils the name of our cotton. "Fly" should not be allowed to be mixed with cotton. To prevent this I would suggest that people should not be allowed to book: "fly" to Gadag and other places. As I have suggested in my written evidence, there should be a committee to prevent mixing. We can always detect such mixed cotton here. If such malpractices came to the knowledge of the committee, they could punish the man who does the mixing. There are only a few merchants here who do it. punish the man who does the mixing There are only a few merchants here who do it It is true that people bring short stapled cotton from Bijapur but I do not think that they mix it with long staple cotton. They sell it as a separate class altogether. Bijapur cotton is brought to Gadag simply for the reason that there is a bigger market here and so the sellers can find more customers and get a better price Bijapur eotton is not mixed with lumpta It would be difficult to stop transport of eotton from one district to another in this truet as there are so many varieties grown here and thoy are all called lumpta Gadag is a central market for all the surrounding tracts, within a radius of about fifty miles Khandesb cotton in very small quantities as it does not pay to bring cotton here all the way from Khandesh Khandesb cotton comes here but only I would recommend a local committee which should be able to prevent the import of waste and Khandesb cotton. A local com mittee could manage it better than any one else In Nurgund Taluka, thirty miles from here, some of the gin owners are themselves merchants. Where gin owners are merchants, they do all this mixing I have brought a sample in which seed has been mixed to add weight It-contains nothing but seed. It was ginned in a sample make the seed has been mixed to add weight a solution of the seed in th double roller gin Semetimes some of the gin owners take on the seed guard and an order to prevent this sort of ginned cotton. I do not think that it would be any good licensing ginneries in order to prevent this sort of Why mixing, as most of the gin owners are not merchants themselves and are not themselves responsible should the gin owners be punished for the wrong doings of the merchants? They only do what they are asked to do by their constituents Licensing might stop such practices but it would be hard on the gin owners as they would less their constituents. If the merchants get cotton mixed in the presses then the presses should It would be very complicated to insist that bales should be marked with the name of the press and ginning factory Who would mark the bales and if they were wrongly marked, how would it be

detected? If inferior stuff is brought in by the ryots, it could be stopped if they were paid a lower price and the cotton were ginned separately as inferior stuff. The biggest evil is that this centimul mixing is spelling the name of Indian cotton. Why should not the brokers be heensed? It would be possible to prevent the mixing of cotton if there were committees formed in the different districts. I think a central bureau in Bombay would be rather a complicated in easure. The local committees would be formed by some of the merchants but there must be some Government official on the committees such as the Manual day or Sub Divisional but there must be some Government official on the committees such as the Mamilatdar or Sub Divisional Officer who should preside over them

5235 Cotton is very much adulterated with seed, etc., and some lots lese as much as thirty five to forty per cent m the blow room This is not selling cotton but is selling dirt at a good price On the whole, I think heensing of ginneries and presses to stop snell practices is a good idea but it would be difficult to carry out

5236 A nag of lapas is 1344 lbs and a nag of lint cotton 336 lbs I think that the unit of weight for eotton should be standardized all over India The Bombay khandi night be the standard weight but we must I do not think that the cultivators are cheated in weighment have some standard unit The series are The weights and scales are tested every year by all the merch ints in Gading I do not know about other places, but here they are very particular about correct weights and scales. Most of the cultivators other places, but here they are very perfectly about correct weights and scales. Most of the cultivators are illiterate, and when their lapas is weighed they depend mostly on the brokers. The buyers weigh a docra at a time. A docra weights about seven maunds of 28 pounds each. The merchan and the broker decide what tare should be allowed. In the dry season they allowed ten to twelve lbs but in the monssoon it goes up to eighteen to twenty two lbs. They do not actually weigh the tare and the merchants gain thereby as the tare is often only ten pounds per docra. The allowance for tare should be standardized. The gunnes, etc., generally weigh ten lbs as in Bombry. It is very difficult to open the docras bere and to gunnies, etc., generally weigh ten lbs as in Bombry. It is very difficult to open the docras here and to ascerta in the actual tare here as they are purchased in the market. They are usually not opened for some days so the tare cannot be ascertamed. Opening the docras in the market would be a tedious task. Even if fully pressed bales are opened, the cotton does not drop whereas if docras are opened, it is difficult to put the cotton back into them again. Standardization of thro would therefore save trouble

5237 (Mr Hodglinson) Some people want their Dharwar American cotton ginned in a double roller gin. As far as my experience goes, it is very difficult to gin Dharwar American in a double roller gin because the lint holds the seed very tenaciously. The double roller gin cannot pull off the lint. The seed being very large does not drop through the grid. That, of course, could be altered. As a rule, owners of double roller. gms refuse to gin Dharwar American as it does not pay them. Tho outturn gees down to nearly half the quantity. You have been told by several witnesses that saw gins damage the staple but the proof of the pudding hes in the eating. The owners of saw gins have ginned thousands and thousands of bales of cotton and they have nover received a complaint. There are nearly 200 saw gins in Gadag. The number of roller gins must be about 300 to 400 but I cannot give the exact figures. The difficulty arises when the saw gins are overspeeded. The prescribed speed is 100 revolutions which is the speed in America. They are often ren 600 revolutions a minute. If they were run slower, they would not daming the staple. I have tried 200 revolutions and have found that it gives a much letter quality than 400 revolutions. The slower a saw gin is run, the Letter the quality. As I have said I am an agent for the sale of saw gins. When I sell a saw gin, I give instructions to my evistomers that they should not run them at more than 400 revolutions a minute. I have stated in my evidence that saw gins might prove successful with Indian cottons if the prescribed speed. were not exceeded and if the saws were thinner and were set cleser than in the gins as imported in America have suggested that if the saws and grids were changed, the gins nught work with the indigenous cottons but I have not yet tried them. I have just got a gin and propose to try the indigenous cottons in it I am in favour of saw gins for Dharwar American provided they are not overspeeded. I should say that a saw gin is much better than a double roller gin for Dharwar American provided it is run at the proper speed Some people have ginned lumptas in saw gins but it changed the class and lowered the price. I do not think saw gins improve the appearance of cotton. The double roller gin gives a continuous web of ginned cotton and improves the class a little bit The cotton acquires a Letter fell and touch

5238 (Mr Roberts) The fibres he differently when roller gunned than they do when saw ginned. The trade is used to that sort of cotton and that is why they prefer it. The double roller gin, if properly fitted, trade is used to that sort of cotton and that is why they prefer it. The double roller gin, it properly fitted, turns out about 1,000 lbs of lint a day and a sixty six gin about 3,000 to 4,000 so that a sax gin is equal to three double roller gins. The fretory owners here have got different pools for sax gins and double roller gins. The charge for ginning Dharwir American in a sax gin is Rs. 7.8 per nag. Rs. 9 per nag is charged for ginning indigenous cottons. The factory owners sometimes charge Rs. 12 to Rs. 13 for ginning Dharwar American cotton in a double roller gin. Messis Marshall and Sons are the Agents for the Eaglo sax gins. Our saw gins are mostly of that pattern but there are some Gullett gins. The merchants in Galag profer the Gullett gins. They are self feeding and a condensor is attached to them for condensing ginned cotton. All the saw gins here have automatic feeds. A saw gin would cost Rs. 1,200 laid down bero (pre war price). The cost of a double roller has now gone up to Rs. 1,500, but formerly it was Rs. 500. For every ten saws one horse power is considered to be required. A double coller gin requires 3 to 31 horse power think that saw gins are disappearing in this tract. On the contrary, the number has gone up are discarding country made saw gins and are using American made. Country made s Country made saw gins are however, still in use especially in the small villages

5239 Small scales are used for weighing at Devangeri and other places but not here

Weighing with

small seales is not very common

5240 Bellary and Sholapur cotton even if it is mixed goes under the name of Gadag cotton respect it tends to deteriorate the value of real Cadag cotton and they realize a less price to some extent for

respect it tends to deteriorate the value of real Cadag cotton and they realize a less price to some extent for it owing to its being inferior stuff

5241 (Mr II adia) There are separate pools for saw gins and double roller gins. In the case of saw girs we pay Rs 2 to the pool and retain Rs 5 8 for working expenses. For a double roller gin we retain about Rs 7 as working expenses and the Lalance goes to the pool. The pool contribution in the case of double roller gins is Rs 2 per nag. The pool profits are divided according to the number of saws and the number of double roller gins each factory has got. There are two different pools. The pool people keep a separate account for the double roller gin pool and for the saw gin pool.

5242 (Mr II dold in son.) As to the comparative cost of saw, gins and double roller gins and saving in

5242 (Mr Hodglinson) As to the comparative cost of saw gins and double roller gins and saving in labour of the former, roughly speaking, ginning one nag of deshi cotton in a double roller gin would cost Rs 5 at present, whereas ginning one nag of Dharwar American in a saw gin would cost about Rs 3 8 to Rs 4

Ginning in the saw gin would therefore save Rs 18 per nag

Mr. I. Molimnick.

Mr L McILWRICK, Manager, Gokak Mills, Gokak

THIS WITSENS VAN NOT CLASS VAN ED

Il ritten Pal Frent

11 - Comment Veres

5243 (30) Local trade customs - Rvots usually bring their Lipers and cotton to the rivile's 1 rm acquainted with, and sell it through their brokers. In some even the root take idvance from the brokers who lend money at varying rates of interest, according to the etability of the evo-Ha elpoin the interest varying from six per cent to twenty four pr cent pr minum. Puvers made contract with reliable varying from six pricent to the model of the peopler following of so it is in Colif, the ryots bring ther lapers and cotton to the mills direct. It is a milled and pool for according to the mills at the rates ruling in the nearest markets rize, Samulatia Ball Hongal. As comparitive credit from societies become better known it might be possible to git in touch with the root is one of its under discharge men money at reasonable rate :

5214 (31) Standardization of commercial names -The connected a since of the arun grides of cotton are (1) Kumplas (2) Westerns (5) Double holler (4) Mung re (5) Sm, until (b) Combodia

The areas from which lone cutton are -

(1) Kump'es—Lassion North, David et South (1) (a) Kumplas—Bijipin and Ityedlot

- (2) Hesterns-Bellier Adon, Cuned I Yerdgiri, Ruchur
- (1) Double Roller Dharwar to 1 unbermur and Die anders (4) Munquin - Gadag to Bellity and Hubb to Divensers
- (5) Sawjuned Haall of to Bijapur and Halli to Haribar
- (6) Cambodia Firupur, Bijapur, teads and other place

(2) The various grades are emitably a med if they are kept alon and not mixed with foreign conton

(3) I would suggest that, in order to beep the corton elements of five from leaf, pody, that etc. the picking of cotton should be better supervised and systematical. At price it every one tries to pick cotton at the same time with the result that labour becomes difficult to obtain and experiments will. From all rethint the kapus is histly pieled and includes unripe and deal pole, leaf and thre are a ding to the livlace of the supervision. I florts should be in de to organ. The labour revalle es in the collectionary of streets and piek over the fields as tast as they become ripe. Unrips bollect only be let to ripe an order to avoid so multilettiget my into the kaper piel me stould be begin in the early morning and can mied till about 11 o clock in the morning, after this time the leaves become brittle and fall off the plant exclusion

(4) The mixing of cotton is a much more difficult raster to deal with that much might be done if cottons were not allowed to be east from one district to another for sale. This is direct from the one of the continuous to a place where it is notically consumed. On owners should

refram from Liming mixed Lipis when they may be aware of any mixture

(6) In Savanur an experiment was made in picking cotton is the cribed above the labour vast paid a little more to piel clear ripe cotton and when we tested this in our blowgoom it lost only has per early a mist twelve to lifteen per cent in cotton purchased from ordinary merchant in Hubb. Cadly District.

(b) At present singuined cotton is mixed with Lumptus. Benjits and mixed with any present singuined cotton.

(7) In order to standardize commercial names, chiminate mixing of cotton, distribut good seed and teach riots to bring their soil up to the best condition for the cotton plant. We experience is that cotton grown riots to bring their soil up to the best condition for the cotton plant. My experience is that cotton grown within a forty miles radius of the mills is more satisfactory and gives better results than cottons we but from other markets. The layer is cleanly pieled and does not contain much fortien matter, as is the ease with kapis purchased in Hubh, Gidag where lest and pods abound and very often cotton of other varieties is mixed. If the cotton is anadulterited, the staple in all these places is much the same of the clust causes of mixing is that mixed seed is often sown by the ryot? thems lies

5215 (32) Buying agencies -As regard briving agencies, obtain honest men and send them to various districts where they can buy lapus, supervise the gimning and pressing. Consumers should buy cotton themselves as far is possible

5246 (33) Improvement of cotton forecast -We usually collect our own tunes and do not bother with Government figures

5247 (35) Publication of Liverpool and Bombay prices -We consider such quotation, might be dangerous to the ryot as the market would most probably receive prices which are speculative rather than actual rates which would represent genuine demand. The root then might hold his colton just a little too long

$II = II \cap II \cap II$

(a) Ginning and pressing

5218 (36) Type and number of gins and presses -Our gins are Double Koller Micartin Cins, Platt make. We have 61 at Gokak and 28 at Saundatti We also have one Commin 8 Pitent Press Horrontal and one Half Press and 1 misher

5249 (38) Saw glas versus roller gins -My opinion is that saw gins we inferior to roller gins except Saw guis may be considered succes ful with Dharwar exotic cotton with regard to outturn, but for respect I consider them inferior as they during the staph. The exotic cotton when presed in every other respect I consider them inferior as they duringe the staple through the double roller gins certainly turns out better staple though a much reduced nutturn, i.e. saw gins get through a much greater quantity of lapus per day than do roller gins

5250 (42) Effect on muchinery of replacement of short slave collon by long slaple — Nucle would depend on what is me int by long staple cotton, if the staple happened to be more than fifteen sixteenths anch long,

some considerable alteration would be necessary

The Japanese Cotton Shippers' Association of Bombay

(b) Spinning and wearing

5251 (43) Counts spun and market for yarn or cloth —The counts we spin are from 45 to 405 and one principal markets are the Mardras Presidency, Bombay and the local mark et

5252 (44) Condition of cetton —A good det of the cotton which reaches our factors is very unsatis factory, containing too much dirt, leaf, seed, and mixed cotton, for the remedy see paragraph 5244 above

5253 (45) Effect on cotton market of replacement of short staple cetton by long staple—It is my hehef that the markets would henefit of short staple cotton were replaced by long staple, as would Indian manu facture. A better quality of yarn and cloths would be placed on the market

THE JAPANESE COTTON SHIPPERS' ASSOCIATION OF BOMBAY

THE WITNESSES WARE NOT OPALLY EXAMINED

Written statement

5254 Preamble —As buyers of a large quantity of Indian cotton, we, Japanese shappers, are in full sympathy with the object of the Committee in inquiring into means for the general improvement of Indian cotton cultivation and trade, and heg leave to submit our humble opinions and shall feel happy if they may receive consideration

5255 Improvement of cotton—(1) Broach—It is a well known fact that Broach cotton has lost much of its staple during the past years. From our standpoint, it seems as if the effort of the Government Agricultural Experts to encourage the cultivation of cotton with hotter yield but inferior staple were rather mis directed. Should the present tendency be allowed to take its course, we are much afraid the demand by Japanese mills, who have so far been the higgest buyers of cotton, will have to be shifted in favour of Dhollera and Punjab American.

(i) Berar and Central Provinces—The same tendency is noticeable in Berar and the Central Provinces (especially in Banosa, Arvi, Dhamangaon, Pulgaon and Wardha) Recently there has been a marked fall in the definand from Japan for Hinganghat and Yeotmal, due, in large measure, to be deterioration of staple. The "additional profit of rupees one erore" as referred to in a letter from the Director of Agriculture (vide Association Report, p. 12), we presume, disregards the loss resulting from the relative decline of basis value. As a matter of fact, the Central Provinces have recently witnessed a remarkable reduction in the production of cotton, which is presumably brought about by the depreciation in value of Central Provinces cotton and consequent loss to be suffered by the cultivators, as a direct sequence of the encouragement of the cultivation of cotton of less value but with better yield

(iii) Cambodia —Although the cotton is not appreciated by Japanese mills so much as by the European and Indian mills, owing to its creamy colour, it is nevertheless rapidly finding its way into the Japanese market. The efforts of Government to give the cotton an improved colour and uniformity of quality would mean a great deal. In present conditions, Cambodia is not getting in our opinion, the full price it deserves

mean a great deal In present conditions, Cambodia is not getting in our opinion, the full price it deserves

(iv) Punjab American cotton is very hopeful In this instance also, we should like to request that Govern ment will take steps to establish the uniformity of quality and, at the same time, to take strict measures to suppress the mixing with deshi cotton. In the Punjab and Sind, Government being solely responsible for the distribution of canal water for irrigation purposes, it must be comparatively easy for the authorities to control the sowing of only the pure seeds with strict orders against adulteration with deshi cotton in the precincts of factories.

(v) Dharwar—This cotton has been very favourably received by the Japanese censumers. It is a pity, however, that it is deteriorating in point of staple, the tendency being precipitated by the universal adoption of power gins in the locality. As we understand it, the climate especially rainfall, of Dharwar has much in common with that of the United States Cotton Belt. We are confident that if Government will once set about to work a radical improvement by importing American seeds on a large scale, placing, on the other hand, prohibition on the sowing of inferior cotton for a certain period, the labour will be well rapid

(vi) Bengal—High class Bengal cotton is indispensable for Japinese mills and will pay the cultivator well if produced. It is a regrettable fact that, being the meeting place of the Bay and Arthan Sea currents of monsoons, the United Provinces are visited by frequent rainfall just at the picking time in September and October. The class of cotton is spoiled much in this way and desirable quality is rendered scarce. With due deference to expert opinion, we would suggest in this connexion that the sowing of United Provinces cotton should be delayed by one month, in, say, the United Provinces can'l districts, so that the picking may be commenced in October. If this experiment proves a success, we expect a substantial increase in the demand from Japan for this cotton and ligher value will be realized.

from Japan for this cotton and ligher value will he realized

5256 Statistical information—In this connection, we regret to have to state that we cannot place much
rehance upon the figures published at present as erop forecast and crop production, especially the latter. The
publication of correct figures for erop forecast is indispensable for the cultivators as well as for cotton slippers.
The returns, we understand, which serve as data for Government to formulate its crop forecasts, do not embrace
some of the Native States. It is sometimes stated that, even within the British ferritories, the system is not a
perfect one. Under such circumstances, it is next to impossible to obtain a correct crop forecast. We believe
that Indian Chiefs would ever be ready to participate with interest and vigour in the present cotton campaign,
which is assuming the importance of an imperial movement, and to give their assistance to the Government
efforts by supplying the necessary statistical information. We suggest that Government should require by
legislation all the ginning and pressing factories, both in the British territories and in the Native States, to
send in their returns in a certain fixed period to the authorities concerned. It is also suggested that the data
should be collected not only from the revenue office alone but from civil sources as well

5257 Railway traffic —The traffic of cotton ports from up country by railway is subject to much curtuilment at present which, we think, is one of the inovitable consequences of the war conditions. We carriestly hope, bowever, that when the present world conflict is over, the carrying of the railways will be fully expended to meet the vast demand of the trade.

2 E

[Continued

Bombay]

5258 Storage accommodation of cotton —The storage accommodation of cotton leaves much to be desired We make our purchases up country on the supposition that there will be no more rain after the monsoon If there is rain at all, it is the value of cotton that suffers for no purposo to the loss of those concerned. It would be a good and timely measure for Government to make it compulsory for the factory owners to increase their warehousing expacity.

5259 Government supervision of factories—It often happens that cotton suffers much as a consequence of insufficient supervision of factories. In some places, for instance, they wilfully mix crushed seeds in ginned cotton. In this connection, we would suggest that Government should be invited to create a circuit of inspectors with authority to close down such factories as are found beyond control.

5260 Fire insurance premium for cotton —At present we are required to pay exorbitant rates of premia for fire insurance on cotton lying at Bombay, and up country, especially in the Bombay Presidency. This goes to make up a heavy item in the cost of Indian cotton and places it very unfavourably in competition with cotton of other growths. We know that there took place some disastrons fires in the years 1914 and 1917. But now that the causes of the fires are brought to light, thanks to the effects of Government, and proper measures taken by all the concerned to check the recurrence, we think it would be good time for Government to undertake to control the rates of fire insurance. In order to determine whether present rates are pushfied or not, a Commission should be appointed to look into the financial returns of insurance companies as regards Indian cotton insurance. We also request that Government will demand the compulsory equipment of fire extinguishing apparatus for factories

5261 Methods of marketing up country - With reference to the method of marketing up country, there are several points which call for improvement. For instance, we arge-

- (a) Compulsory unification of weight units for seed cotton and ginned cotton in India
- (b) Compulsory unification of weighing methods of cetton up country The methods followed in the Bengal districts are the worst examples, being both primitive and irregular, to the great loss of the ryot

5262 Methods of picking—It seems to us that the method of picking cotton now followed by cultivators is a very rude one, which is chiefly responsible for lowering the merit of cotton. We beg to invite the attention of Government to this point with a view to possible improvement.

5263 Increased production of cotton —We are confident that, with a little more investigation and capital outlay a substantial increase will be made possible. A few of the questions which may be profitably looked into by the authorities would be application of increased quantity of manures, question of sowing cotton by rotation with other crops, construction of more canals and tanks, scientific investigations to find out species which gives better yields of longer stapled cotton

5264 The cotton frauls Act —With reference to the above Act, we wish that Government will enforce it with more vigour and strength, so that the practice of false packing and watering of cotton may be efficiently checked. The quality and colour of watered cotton undergo much deterioration during the voyage to speak nothing of the loss in weight when cotton is landed.

5265 Control of crection of new factories—We regret to state that, in this connexion, we cannot shire the opinions of the Bembay Cotton Trude Association, Limited, although we admit that the hecising of new factories is conducive to the possibility of getting statistical data and of tracing back the quality to the factory where it was originally baled. We are not blind to the harm done to cotton business by the pools among factory owners, but at the same time we are of opinion that the best way to do away with thus would be in the form of anti-pool legislation or to leave it entirely to the advent of free competition. If the pool of a certain place is blessed with a very handsome profit, new factories will naturally make their appearance with the result of dispelling the combination. There may be an instance in which certain new factories, which were set up besides and outside the combined factories, subsequently joined the latter and successfully enhanced the pool rate. But the more common supposition would be that the possibility of new factories coming into the arena will do much to put a check on the profiteering by the combined factories. Put restrictions of control on the building of new factories and we shall have to face much lugher rates demanded by the combination.

(2) We cannot think that a central committee consisting of members representing Government and business circles can be the best judges as to the central and regulation of heenses for the establishment of new factories. It seems to us that it is the cotton trade itself that is the best deciding body. On this point we believe in the principle of laissez faire. Supposing, however, there is to be established some central committee for this purpose, it would be necessary for the Government to regulate the maximum rate of ginning and pressing charges. Otherwise all the efforts of Government originally intended for the destruction of pools would only tend to protect their interests and place them on a more secure basis.

5266 Export duty on cotton —The export duty on cotton, it seems to us, would bring upon the trade the following points of disadvantage —

- (a) In the first place, we are much afraid that the imposition of export duty may result in bringing a certain revenue to the Government from a limited section of the trade at the great and punful expense of the whole. As the reports of the Government of India point out, India cotton has a lot of rivals in the world's market in the form of Clunese, Chosen (Korean) and Annam cotton, of which Chosen Cotton is recently multiplying its production with amazing rapidity. The incidence, then, of an export duty on Indian cotton, which was originally aimed at the exporters and final consumers abroad, would be reflected back to the ryots themselves and this would clearly be against the spirit of Government to give protection to the cotton producers
- (b) It would give a fresh impetus to growers of cotton in other parts of the world such as above pointed out, i.e., China, Chosen, Annam, thus encouraging rivals
- (c) Although export duty may be levied only on about one third to one half of the erop, the value of the whole erop will be naturally depressed and consequently it may be an additional proteotion to cotton manufacturing industry in India but loss to ryot
- (d) It would contribute to accentuate the already existing tendency in Japan for the increased con sumption of American cetton, which means the loss to India of the biggest buyer of Indian cetton

Madras]

Mr K NISHIMURA

Mr K NISHIMURA, Agent, Mitsui Bussan Kaisha, Ltd., Jalgaon

THIS WITNESS WAS NOT ORALLY FYAMINED

Written statement

5267 Suggested improvements in the present system —I beg to state the improvements to be done in the

present system as under

5268 (1) Improvement of statistical information—I think that all traders in cotton have a strong desire to know beforehand the forecast of the coming season, which helps them much to settle their views in the purchase and sale. The Government has arranged to publish the figures of acreage sown, but on experience it has been found that they are not as accurate as are necessary. At present we think these figures are collected from the information or reports of talatis who have very little interest or value in it and such figures have been submitted from them on general information. The Revenue Officers should ask the talatis to provide these figures twice, i.e., just at the beginning of the rains and alter a month or when the regular monsoon has set in in such times figures are more reliable because the plants are actually standing. At present, the average yield per acre of the season never tallies with the total crop, considering the acreage figures. So the above mentioned system will be useful in that respect too

mentioned system will be useful in that respect too
5269 (ii) Standardization of weights—In Kbandesh, even in the one district, the standard weights and
methods of calculations are different for each place which should be changed and a uniform system introduced
Having different weights the cultivator puzzles himself and is not satisfied with the calculations and also

be cannot compare the rates obtained with the rates of neighbouring districts

5270 (111) Improved methods of handling Lapas —The way of picking the Lapas from the fields is most dirty. Along with the lapas, leaf and mud are collected and thus the class of cotton is lowered by one grade and in ginning factories, the Lapas heaps are stacked in the open and in such cases whenever there is any rain, all heaps are damaged by rain and though the buyers of cotton are most particular to avoid such stiff, still the damaged stuff is mixed with good cotton and at times it has come to the notice of buyers, many disputes arise thereby, so, if gin owners erected godowns, it would be advantageous to all. In gin factories, the neces sary care is not taken by the factory owners, thereby the Lapas, cotton seed and only cotton go along with the cotton and this being a great loss to the mills, serious complaints are received from Home and at times they charge heavy allowances. The present Platt Brothers' gins are hest for Khandesh lapas and no other gin will suit. In many places, the lapas openers are not used and thus the leaves and dust from the Lapas glong with the cotton, so if there be a rule that no Lapas should go on the gin platform unless it is passed through the opener, the outturn will he more and the percentage of the dead cotton and cotton seed will be found less in good stuff

5271 (iv) Improved picking of ginned cotton —The empty docra gunnes, i.e., the tare used for packing ginned cotton are used too long and become rotten and thereby the cotton falls through the holes, which is a loss to seller and buyer, and the threads and pieces are mixed with cotton and it being impracticable to separate them, the class of cotton is also reduced. In this respect, many buyers join together and make a rule not to accept the deliveries of such old gunny packing, but there being market authorizing rules according to the market tone, the buyers themselves do not follow the rule and of this many sellers take advantage

and follow the same system

(2) Day by day the labour difficulty is coming in the way of getting work done satisfactorily
(3) The present presses are good enough and it is not necessary to make any alteration in them

5272 (v) Abolition of the jalap system—The old system of jalap is almost all abolished, but still in some places it is in force. It is not a good one and should be totally stopped. The bargains, which are effected, should be entered in the market register book, so, even if the market goes up or down, the parties will not deny the bargains and will save the trouble of going to the court.

the bargains and will save the trouble of going to the court
5273 (vi) Establishment of Market Boards—In every big town there should be a Market Board and
it should have registered rules and at the end of every season it should publish a report The Board should
consist of some big and rehable cotton buyers, sellers, agriculturists and one Government officer from the

Agricultural Department

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